SNSCOLLEGEOFENGINEERING

Kurumbapalayam(Po),Coimbatore–641107
ANAUTONOMOUSINSTITUTION
Accredited by AICTE and Accredited by NAAC – UGC with 'A' Grade
ApprovedbyAICTE,NewDelhi&AffiliatedtoAnnaUniversity,Chennai
Department of Computer Science and Technology
QUESTION BANK

SUBJECT   :23ITB202-PYTHONPROGRAMMING

SEM/YEAR:IIISem/IIYear

Unit1		
INTRODUCTION		
Overview of Python and its applications in engineering-Basic Syntax and Data Type: Variables, data types, and basic operations- Conditional statements and loop.		
PartA		
Q.No.	Questions	Competence	BTLevel
1.	Listthevariouscontrolflow structures	Remember	BTL1
2.	Definealgorithm.	Understand	BTL2
3.	Distinguishbetweenpseudocodeand flowchart.	Analyze	BTL4
4.	Writethebuildingblocksofalgorithms.	Remember	BTL1
5.	Discussdifferentmodesofoperationinpython.	Understand	BTL2
6.	Writeasimplepythonprogramto performadditionoftwo values.	Apply	BTL3
7.	Distinguishbetweenstringandlistdatatypes.	Analyze	BTL4
8.	Inferhowdoespythoninterpreterwork?	Evaluate	BTL5
9.	Writeanalgorithmfor basicarithmeticoperations.	Create	BTL6
10.	Evaluatethe orderofprecedence ofoperators inpython.	Evaluate	BTL5
11.	StateTupleAssignment.	Remember	BTL1
12.	Develop an algorithm to convertTemperature in Celsius to Fahrenheit.	Create	BTL6
13.	DefineVariable.	Remember	BTL1
14.	ShowhowCommentisused inpython.	Remember	BTL1
15.	Examineasimplepseudocodetoprintnintegers.	Apply	BTL3
16.	Whatisdatatypeinpython?Listthevariousdatatypes.	Understand	BTL2
17.	Drawtheflowchartforcalculatingsimpleinterest.	Evaluate	BTL5
18.	WritethePseudocodeforgreatestamongtwonumbers.	Apply	BTL3
19.	MentionthefeaturesofPython.	Analyze	BTL4
20.	Discusstheproblemsolving techniques.	Understand	BTL2
21.	Classifyexpressionsbyapplyingdifferentoperators.	Apply	BTL3
22.	List the basic symbols used in drawing the flowchartfor sequence control structure.	Remember	BTL1
23.	Classifydifferenttypesofstatementsinpython.	Analyze	BTL4
24.	Listthetypesofoperatorsavailableinpython.	Understand	BTL2
PartB		
1.	Analyze the modelof interpreter and explain how python works in different modes. (13)	Analyze	BTL4
2.	Evaluatethedifferent values(datatypes)andtypesof values that can be used in Python. (13)	Evaluate	BTL5

3.	(i) Summarize the advantages and disadvantages of flowchart.(6) (ii) Summarize the symbols used in flowchart.(7)	Understand	BTL2
4.	List the different operators in python and estimate the precedence of execution. (13)	Remember	BTL1
6.	List the types of operators in python and thus explain the different expressions involved in python. (13)	Apply	BTL3
7.	With neat sketch explain the following building blocks of algorithm: (i) Statements(5) (ii) Controlflow(8)	Remember	BTL1
8.	Analyze the need for functions and explain with an example. (13)	Analyze	BTL4
9.	(i) Develop a flowchart to check whether the given number is a prime number or not.(7) (ii) Develop a pseudocode to perform arithmetic operations. (6)	Apply	BTL3
10.	(i) What is an algorithm? List the characteristics of a good algorithm.(6) (ii) Write an algorithm find the square root of a number.(7)	Remember	BTL1
11.	Design the flowchart and write that calculates salary of an employee. Prompt the user to enter the Basic salary, HRA, TA and DA. Add these components to calculate the Gross salary. Also, deduce 10% salary from the Gross salary to be paid as tax. (13)	Create	BTL6
12.	Write an algorithm and Pseudocode for the following: (i). Calculating area and circumference of a circle. (7) (ii). Check given year is leap year or not. (6)	Understand	BTL2
13.	Explain the sequence data types in python with examples. (13)	Evaluate	BTL5
14.	Discuss the various modes of Python Interpreter and explain with example.(13)	Apply	BTL3
15.	Summarize the difference between algorithm, flowchart and pseudocode.(13)	Understand	BTL2
16.	Explain the following. (i) Tuple assignment(4) (ii) Comments(4) (iii) Statements in python(5)	Understand	BTL2
17.	Using a simple python snippet, analyze different values, types and expression and explain them.(13)	Analyze	BTL4
PART-C			
1.	Write an algorithm, pseudocode and draw the flowchart to find the factorial of a number n.(14)	Create	BTL6
2.	Design a calculator with python code by defining its algorithm using different notations.(14)	Create	BTL6
3.	Write a program to explain the various operators involved in python and how an expression evaluated using precedence of operators. (14)	Create	BTL6
4.	Write an algorithm, pseudocode and draw the flowchart to check whether the given number is palindrome or not.(14)	Evaluate	BTL5

5.	Ratetheorderofexecutionofdifferentexpressionsby evaluating them through python program.(14)	Evaluate	BTL5

Unit2			
FUNCTIONANDSTRING			
Fruitful functions: return values, parameters, local and global scope, function composition, recursion; Strings: string slices, immutability, string functions and methods, string module;Lists as arrays. Illustrative programs: square root, gcd, exponentiation, sum an array ofnumbers, linear search, binary search.			
PartA			
Q.No.	Questions	Competence	BT Level
1.	Definefunctionand stateitsuse.	Remember	BTL1
2.	Whatdoesrecursivefunctionimplies?	Remember	BTL1
3.	Analyzethedifferentkindsofarguments.	Analyze	BTL4
4.	Evaluatetheimportanceoffruitfulfunctions.	Evaluate	BTL5
5.	Analyzetheneed todivideaprogramintofunctions.	Analyze	BTL4
6.	Write aprogramtoprintnnumbersiterativelyusing function.	Create	BTL6
7.	Usingtheconceptoffunctions,calculatetheareaof a circle.	Apply	BTL3
8.	Usingtheconceptoftupleassignment,howwillyou swap two values?	Apply	BTL3
9.	Whatdoyoumeanbyfruitfulfunction?	Understand	BTL2
10.	Outlinethe scopeofvariables.	Understand	BTL2
11.	Writethesyntaxofif-elsestatements.	Remember	BTL1
12.	Differentiateforloopandwhileloop.	Analyze	BTL4
13.	Listanythreebuilt-infunctionsanditsusage.	Understand	BTL2
14.	Writeafunctionwithout argumentandwithreturntype.	Analyze	BTL4
15.	Differentiatelocalandglobalvariables.	Apply	BTL3
16.	Write aprogramtofindthe sumofthedigitsofanumber	Evaluate	BTL5
17.	Illustratetheflowchartofif-elif-elsestatements.	Apply	BTL3
18.	Howwould youtestthe significanceofforloopwithelse in an example.	Evaluate	BTL5
19.	Presenttheflowofexecutionfor awhile statement.	Remember	BTL1
20.	Writethesyntaxforfunctiondefinition.	Remember	BTL1
21.	NamethetypeofBooleanoperators.	Remember	BTL1
22.	Describebreakstatementwithanexample.	Understand	BTL2
23.	Writea programtofindsquare rootofagivennumber.	Create	BTL6
24.	Givethesyntax for passandcontinuestatements.	Understand	BTL2
PartB			
1.	Using theconceptofcontrolstructuredeterminethe prime numbers in given range using Python.(13)	Apply	BTL3
2.	Writeaprogramtodeterminethefactorialofagiven number with and without the use of recursion.(13)	Evaluate	BTL5
3.	What doesfruitfulfunctionrefersto?Howitcanbe used? Explain with an example.(13)	Understand	BTL2
4.	Writethesyntaxandexplaintheconceptof (i) Recursivefunctionwithanexample. (7) (ii) tosearchanelementusinglinear search (6)	Remember	BTL1

5.	List the different types of arguments / parameters used in function with suitable examples.(13)	Remember	BTL1
6.	Using a python program, analyze the different logic behind swapping the values between variables.(13)	Analyze	BTL4
7.	Write a program to find the square root of a number by Iterative newton's method. (13)	Create	BTL6
8.	Explain the looping statements (while and for loops) with an example. (13)	Understand	BTL2
9.	List the different types of conditional control statements and explain them with suitable example.(13)	Understand	BTL2
10.	Describe the concept of binary search with suitable example and write python code to implement.	Evaluate	BTL5
11.	(i) Write a Python program to find the GCD of given two numbers.(6) (ii) Write a Python program to find the exponent of a number using recursion.(7)	Apply	BTL3
12.	(i). Write a python program to find the greatest among three numbers.(6) (ii). Write a program to check the given number is Armstrong number or not.(7)	Understand	BTL2
13.	Explain with an example break and continue statements using while loop.(13)	Analyze	BTL4
14.	Write a python code to print all numbers in a range (a,b) divisible by a given number (n).(13)	Apply	BTL3
15.	What is function? How a function is defined and called in python? Explain with a simple program.(13)	Remember	BTL1
16.	(i) Write a Python program to find the sum of N natural numbers.(9) (ii) What is the use of pass statement? Illustrate with an example.(4)	Remember	BTL1
17.	(i). Write a Python program using function to find the sum of first 'n' even numbers and print the result. (7) (ii). Write a python program to find the roots of the quadratic equation. (6)	Analyze	BTL4
PART-C			
1.	Create a userdefined fruitful function to test a given year is a leap year.(14)	Create	BTL6
2.	Write a function to determine whether a given natural number is a perfect number. A natural number is said to be a perfect number if it is the sum of its divisors.(14)	Create	BTL6

3.	(i). Write a python program to implement student mark system using chained conditional if control structure. (7) (ii). Write a python program to find the given number is positive, negative or zero using Nested if conditional control structure. (7)	Evaluate	BTL5
4.	Write a function reads two numbers and evaluates whether they or co-prime or not. Two numbers are said to be co-prime if they do not have any common divisor other than one.(15)	Evaluate	BTL5
5.	Write a function to multiply two non-negative numbers by repeated addition and evaluate the result by normal procedure.(15)	Evaluate	BTL5

Unit3

LIST,TUPLES&DICTIONARIES

Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing-list comprehension; Illustrative programs: simple sorting, histogram, Students marks statement, Retail bill preparation..

PartA

Q.No.	Questions	Competence	BT Level
1.	Define Python list.	Remember	BTL1
2.	Mention the list operations.	Remember	BTL1
3.	What are the different ways to create a list?	Remember	BTL1
4.	Illustrate negative indexing in list with an example.	Apply	BTL3
5.	How to slice a list in Python?	Understand	BTL2
6.	Point out the methods that are available with list object.	Analyze	BTL4
7.	Show the membership operators used in list.	Apply	BTL3
8.	Define Python Tuple.	Remember	BTL1
9.	Write a program to add two lists.	Create	BTL6
10.	Classify the Python accessing elements in a Tuples.	Apply	BTL3
11.	Point out the methods used in Tuples	Analyze	BTL4
12.	How tuple as arguments to a function? Give example.	Evaluate	BTL5
13.	Write the syntax and purpose of insert() method in list.	Understand	BTL2
14.	How for loop used in sequence objects? Give example.	Apply	BTL3
15.	Point out the advantages of tuple.	Analyze	BTL4
16.	Evaluate the difference between lists and tuples.	Evaluate	BTL5
17.	Show how Tuples are used as return values?	Evaluate	BTL5
18.	What does sorting refers to?	Remember	BTL1
19.	What does the term mutability refers to?	Understand	BTL2
20.	Write a program to create a list of even numbers in a given range.	Create	BTL6
21.	Write the syntax for concatenating two lists in python.	Understand	BTL2
22.	Show how Tuples are immutable?	Understand	BTL2
23.	List the different sorting algorithms.	Remember	BTL1
24.	With the help of a program, list the different methods in list.	Analyze	BTL4

PartB

1.	Discover an algorithm and write a python program to sort the numbers in ascending order using insertion sort.(13)	Analyze	BTL4

2.	Describethefollowing (i) Creatingthelist (4) (ii) Accessingvaluesinthelists (3) (iii) Updatingthelist (3) (iv) Deletingthelistelements (3)	Remember	BTL1
3.	(i) Analyzethebasiclistoperationsindetail with necessaryprograms. (7) (ii) WriteaPythonprogramtoaddtwomatrices.(6)	Analyze	BTL4
4.	(i) MentionthePythonlistmethodswithexamples.(8) (ii) Why it is necessary to have both the functions append( ) and extend( )? What is the result of the following expression that uses append( ) where it probably intended to use extend( )? >>>lst=[1,2,3] >>>lst.append([4,5,6])(5)	Remember	BTL1
5.	Demonstratetheworkingof+,*andsliceoperatorsin python lists and tuples.(13)	Apply	BTL3
6.	(i) Whatis a Python Tuple? What are the advantages of Tuple over list? (5) (ii) "Tuplesare immutable".Explainwithexample.(8)	Remember	BTL1
7.	Illustrate thewaysof creatingtheTupleandtheTuple assignment with suitable programs. (13)	Apply	BTL3
8.	(i) Whatare the accessing elementsin a Tuple? Explain with suitable programs.(7) (ii) Explainhow toreturn morethan onevaluefrom a function with the help of a program.(6)	Remember	BTL1
9.	(i). ExplainthebasicTupleoperationswithexamples.(6) (ii). Illustrate a programto check whether an element 'y' and 'a' belongs to the tuple mytuple = ('p','y','t','h','o',n') and after printing the result, delete the Tuple.(7)	Understand	BTL2
10.	Writeaprogramto performthefollowing matrix operations. (i). Additionoftwomatrices (ii). Transposeofamatrix.	Apply	BTL3
11.	Howlist isusedinloops?Giveanexampleeachfor while loop and for loop used in lists.	Understand	BTL2
12.	Givenatupletest_tup=(4,5,4,5,6,6,5).Writea programtofindthefrequencyofeachelement.[Output likeas *{4:2,5:3,6:2}]*	Evaluate	BTL5
13.	Describe thebuiltinfunctions with Tuplesandwrite a program to use Max(), Min() and sorted() methods in Tuple.(13)	Understand	BTL2
14.	(i). Discuss a)Tuples as returnvalues b) Variable Length Argument Tuples(6) (ii) Writeaprogramto illustratethecomparison operators in Tuple.(7)	Understand	BTL2
15.	WriteaPythonprogramto store'n'numbers ina list and sort the list using selection sort.(13)	Evaluate	BTL5

16.	Usingthe functionsand methods,analyzethedifferences and similarities of lists and tuples with examples for each.(13)	Analyze	BTL4
17.	Write aprogramtoperformthelogicofquicksort algorithm.(13)	Create	BTL6
PartC			
1.	Write a function that takes a list of numbers as inputfromtheuser andproducesthecorrespondingcumulative list(14)	Create	BTL6
2.	Writea functionto performsortingofgivennumbersand present a list ofodd and even numbers separately.(14)	Create	BTL6
3.	Writeapython program toadd tupletolistandvice–versa.(14)	Create	BTL6
4.	Write a function 'leftCirculate' that takes a listas an input andleft circulatesthevaluesinthelist sothat inthe finallist,eachvalueisleftshiftedbyonepositionand leftmost value in the original list now appears as the rightmost value.(14)	Evaluate	BTL5
5.	Write a programto delete allthe duplicate elements in a list.(14)	Evaluate	BTL5

Unit4			
FILES,MODULES,PACKAGES			
Filesandexceptions:textfiles,readingandwritingfiles,formatoperator;commandline arguments, errors and exceptions, handling exceptions, modules, packages; Illustrative programs:wordcount, copyfile, Voter'sagevalidation, Marksrange validation(0-100).			
PartA			
Q.No.	**Questions**	**Competence**	**BTLevel**
1.	Definedictionary.	Remember	BTL1
2.	Examinedifferentsetfunctions.	Analyze	BTL4
3.	Write aprogramtoperformunion,intersectionand difference operation using set	Create	BTL6
4.	Usingthebuiltinfunction update,howkey valuepair can be inserted?	Apply	BTL3
5.	Whatdoeskeyvaluepairrefersto?	Remember	BTL1
6.	Whatisset?	Remember	BTL1
7.	Listthedictionaryoperations.	Remember	BTL1
8.	Listthemutabledatatypesandimmutabledatatypes	Remember	BTL1
9.	Howtocreateanddeleteadictionary?	Understand	BTL2
10.	Writeapythonprogramtomanipulatestrings.	Create	BTL6
11.	Whatwillbetheoutputofprint(str[2:5])ifstr='hello world!'?	Evaluate	BTL5
12.	Howtoadd and remove datainset?	Understand	BTL2
13.	Describeany4methodsusedonastring.	Apply	BTL3
14.	WhatdoesD.item() returns?Giveanexample.	Apply	BTL3
15.	Dosetsupportsindexing.Justifytheanswer.	Analyze	BTL4
16.	Aredictionaryandsetdifferent.Justifyyouranswer.	Evaluate	BTL5
17.	Writeanexampleforstring traversal.	Understand	BTL2
18.	Describestringmodule.	Understand	BTL2
19.	Writetheusageof capitalize()andtitle()methodsin string.	Apply	BTL3

20.	How doesmakeacopyofdictionaryusingcopy()method?	Analyze	BTL4
21.	Howcanyouinsertvalues intoadictionary?	Evaluate	BTL5
22.	Whatistheuseoffromkeys() indictionary?	Understand	BTL2
23.	Whatdoesthemodulemean?	Remember	BTL1
24.	Whatdoesthefunctionjoin( )inastringusedfor?	Analyze	BTL4

PartB			
1.	(i) Define methods in a string with an example program using at least 5 methods.(10) (ii) Howtoaccesscharactersofastring?(3)	Remember	BTL1
2.	Writeaprogramtocountthenumberofcommon characters in a pair of strings.(13)	Apply	BTL3
3.	DescribethemethodsandoperationsofDictionaries.(13)	Remember	BTL1
4.	Write a Python program tocount the number of vowels in a string provided by the user.(13)	Understand	BTL2
5.	Write a program that takes a sentence as input from the user and computes the frequency of each letter. Use a variable of dictionarytype to maintain the count.(13)	Apply	BTL3
6.	Pythonstringsareimmutable.Justify withanexample program. (13)	Analyze	BTL4
7.	(i) Analyzestringslicing.Illustratehowitisdonein python with an example.(6) (ii) Write a python code tosearch a stringin the given list. (7)	Analyze	BTL4
8.	Usingtheconceptof dictionary,Showadictionaryof frequency of words for a given text.(13)	Remember	BTL1
9.	Compareandcontrastdifferentfunctionsandmethods used in dictionaries and set.(13)	Analyze	BTL4
10.	Describe setandexplainitsoperationswithsuitable examples.(13)	Understand	BTL2
11.	Describedifferentfunctionsassociatedwithsets.(13)	Understand	BTL2
12.	Writeafunctionthattakesastringasaparameterand replaces the first letterofevery word withthe corresponding uppercase letter.(13)	Evaluate	BTL5
13.	WriteaPythonprogramforaddingelementstoa dictionary.	Evaluate	BTL5
14.	What arethe methods used to copydictionaries? Write a program to copythe dictionary using those methods.	Apply	BTL3
15.	Howto removeitemsfromset?Explainthemethods used for it with example.	Understand	BTL2
16.	Recollectthevariousdictionary operationsandexplain them with an example.(13)	Remember	BTL1
17.	Create aprogramtodeterminewhetherastringisa palindrome or not.(13)	Create	BTL6
PartC			
1.	(i) Write a function to find the number ofcommon characters in two strings.(7) (ii) Writea programto reversea string.(7)	Create	BTL6

2.	Write a function that takes a number as an input parameter and returns the corresponding text in words, for example, on input 452, the function should return 'FourFiveTwo'.Useadictionaryformappingdigitsto theirstringrepresentation.(14)	Create	BTL6
3.	Usingadictionaryvariable,estimatethefrequencyof each character in a sentence obtained fromthe user.(14)	Evaluate	BTL5
4.	(i). Writea Python program tocheckif twogiven sets have no elements in common.(7) (ii). Write a Python program to remove theintersection of a 2nd set from the 1st set. (7)	Create	BTL6
5.	Evaluate the different operations like union, intersection and differences of list using Set and functions.(14)	Evaluate	BTL5

Unit5
ADVANCEDPYTHON CONCEPTS
NumPy: Introduction to NumPy arrays and operations- Data manipulation with Pandas-Data visualizationusingMatplotlib.-DataImportandExport:HandlingCSV,Excel,andotherdata formats.

PartA			
Q.No.	**Questions**	**Competence**	**BTLevel**
1.	Pointoutdifferentmodesoffileopening.	Analyze	BTL4
2.	Definetheaccessmodes	Remember	BTL1
3.	Distinguishbetweenfilesandmodules.	Understand	BTL2
4.	Definereadandwrite file	Remember	BTL1
5.	Describerenaminganddeletinga fileinpython.	Understand	BTL2
6.	Discovertheformatoperatoravailable infiles.	Apply	BTL3
7.	Examinetheneedforexceptionsusinganexample	Analyze	BTL4
8.	ExplainBuilt-inexceptions.	Evaluate	BTL5
9.	Differencebetweenbuilt-inexceptionsandhandling exception	Remember	BTL1
10.	Writeaprogram towritea data in afileforboth write and append modes.	Evaluate	BTL5
11.	Howtoimportstatements?	Remember	BTL1
12.	Findtheerrorinthe codegiven: **whileTrue**print('Hello world')	Create	BTL6
13.	Definepackage.	Remember	BTL1
14.	WhatarepackagesinPython?	Remember	BTL1
15.	Writethedifferencebetweenread()andread(n)functions?	Evaluate	BTL5
16.	Accept five names fromthe user and write ina file "name.txt".	Analyze	BTL4
17.	Whatis'valueerror'inpython?	Apply	BTL3
18.	Whatisbaseexception?	Understand	BTL2
19.	Examinebuffering.	Apply	BTL3
20.	Whatdoyoumeanbyfileisatty()method	Understand	BTL2
21.	DiscoverexceptClausewithMultipleexception	Apply	BTL3
22.	CreateaPythonscripttodisplaythecurrentdateand time.	Create	BTL6

23.	Analyzetheobjectasreturnvalues.	Analyze	BTL4
24.	Discussa modular design	Understand	BTL2
PartB			
1.	Write aPythonprogramtodemonstratethefileI/Ooperations.(13)	Analyze	BTL4
2.	Discussthedifferentmodesforopeningafileand closing a file.(13)	Understand	BTL2
3.	(i) Discoveraprogram tocatchadivideby zero exception. Add a finally block too.(7) (ii) Write a functionto print the hashofanygiven file in Python.(6)	Analyze	BTL4
4.	(i) Describetheuseoftryblockandexcept blockin python with syntax.(8) (ii) Describe withanexample exceptionswitharguments in python.(5)	Remember	BTL1
5.	(i) Explainwithexampleofwriting afile(7) (ii) Discoversyntaxforreadingfromafile(6)	Apply	BTL3
6.	(i) StructureRenaming afile(7) (ii) Explainaboutthefilesrelatedmethods(6)	Analyze	BTL4
7.	(i) Describepythonmodules(6) (ii) Describepythonpackages(7)	Remember	BTL1
8.	Writeaprogramthat willprompttheuser forastringand a file name, and thenprint alllines inthe file thatcontain the string. Also interpret the obtained result.(13)	Evaluate	BTL5
9.	Identify the various methods used to delete the elements from the dictionary(13)	Remember	BTL1
10.	Describeindetailexceptionhandlingwithsample program(13)	Remember	BTL1
11.	Illustrate aprogramtofindtheone'scomplementof binary number using file.(13)	Understand	BTL2
12.	Writeaprogramtodisplayapyramid.(13)	Create	BTL6
13.	Explain the terminology of raising an exception concept with sample program.	Evaluate	BTL5
14.	Write a program to count the total number of uppercase characters in a file in Python.	Apply	BTL3
15.	Explainthefollowing: (i). PredefinedModules (ii). Userdefined Modules.	Understand	BTL2
16.	Write aprogramtofindthenumberofinstancesofdifferent digits in a given number. (13)	Apply	BTL3
17.	Explain with anexample to copythe contents ofone file to another.(13)	Understand	BTL2
PartC			
1.	Create a programto compute price per unit weight ofan itemusing try – except – else block.(14)	Create	BTL6
2.	Write a programthat readsthe contentsofthe file text.txt and counts the number of alphabets, blank spaces, lowercaselettersanduppercaseletters,thenumberof words starting with a vowel, and the number of occurrences of the word 'is' in the file. (14)	Create	BTL6

3.	Examine the following function percentage:
	def percentage(marks,total):
	  try:
	    percent=(marks/total)*100
	  except ValueError:
	    print('ValueError')
	  except TypeError:
	    print('TypeError')
	  except ZeroDivisionError:
	    print('ZeroDivisionError')
	  except:
	    print('anyothererror')
	  else:
	    print(percent)
	  finally:
	    print('Function percentage completed
	
	Determine the output for the following function calls:
	  a) percentage(150.0,200.0)
	  b) percentage(150.0,0.0)
	  c) percentage('150.0','200.0')(15)
		Evaluate	BTL5

4.	Write a function that reads a file file1 and evaluates and displays number of words and vowels in the file.(14)	Evaluate	BTL5
5.	Write a program to count a total number of lines and count the total number of lines starting with 'A', 'B', and 'C'.	Evaluate	BTL5