



SNS COLLEGE OF ENGINEERING
Kurumbapalayam (Po), Coimbatore – 641 107



AN AUTONOMOUS INSTITUTION

Accredited by NAAC-UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Department of Computer science and Engineering (Internet of things with Block chain technology and cyber security)

DAA Notes

Unit-1

1.Algorithm:

Algorithm is a set of steps to complete a task.

For example,

Task: to make a cup of tea.

Algorithm:

- add water and milk to the kettle,
- boilit, add tea leaves,
- Add sugar, and then serve it in cup.

Characteristics of an algorithm: -

- Must take an input.
- Must give some output(yes/no,valueetc.)
- Definiteness –each instruction is clear and unambiguous.
- Finiteness –algorithm terminates after a finite number of steps
- Effectiveness –every instruction must be basic i.e. simple instruction.

2. pseudo code for expressing algorithm:

Pseudocode, as the name suggests, is a false code or is a high-level description of an algorithm. In other words, we can say that pseudocode is a cooked-up representation of an algorithm. Pseudocode can be easily understood by someone who has basic knowledge of programming.

Pseudocode:

```
AreaofCircle()  
{  
BEGIN  
Read: Number radius, Area;  
Input r;  
Area = 3.14 * r * r;  
Output Area;  
END  
}
```