

Array:

* An array is a container object that holds a fixed number of values of a single type

* Arrange the data in rows & columns

Scenario:

Develop a stud attendance sys for your class. Every day attendance is recorded for each student. How can we store & retrieve attendance efficiently.

* Without array is not possible to implement.

* But Array allow us to store multiple values of the same type using a single variable.

Array is a collection of elements of the same data type stored in contiguous memory locations.

eg:

```
class Attd
```

```
{
```

```
    public static void main (String[] args)
```

```
    {
```

```
        boolean[] attendance = { true, false };
```

```
        System.out.println ("Student 1" + att[0],
```

```
    }
```

```
}
```

att[2] ?

what will happen

Array declaration,

```
int[] marks = new int[5];
```

Access & Modifying Arrays.

* Array will use Indexing, starts from 0.

```
marks[0] = 85;
```

```
System.out.println ("1st stud mark" + marks[0]);
```

Case study:

Develop a system where they can store marks of multiple stud's. Calculate their avg, &

Programming structure in JAVA

Basic structure

Package declaration (optional)

import statements

class declaration

Main method

statement & logic

Sg:

import java.io.* — built in or user defined libraries

class MyClass

↳ Pascal class

Access from anywhere

Public static void main (String [] args)

↳ No return value

↓
called without creating an obj

↓
Command line arg

s.o.p ("Hello world");

}