**Day 3: 17-10-2025: SDLC**

1. Non primitive data types or reference data types: it is use to store value as well as reference of another data types.

In Java reference data types mainly divided into 4 types.

* 1. array
  2. class : pre defined or user defined
  3. interface : pre defined or user defined
  4. enum : pre defined or user defined

array : array is known as reference data types which is use to store more than one value of same data types or homogeneous elements.

Syntax

Array declaration

datatype arrayName[];

int []abc;

int xyz[];

int [] mno[];

int[] mmm[];

array declaration with initialization

int []num={10,20,30,40,50};

array value start with index position 0.

Creating memory for array

datatype arrayname[]=new datatype[size];

int []num1=new int[10];

num1[0]=100;

num1[1]=200;

we can take the value using Scanner class.

enhanced loop or for each loop

syntax

for(datatype variableName : arrayName) {

S.O.P(variableName);

}

2-D array

int num[][]=new int[row][cols];

Jagged Array : In Jagged array of array can be different types.

Syntax

datatype arrayname[][]=new datatype[size][];