# Assignment 1

(Komal Mehrotra)

.......

1. How data types are classified?

Ans 1) Data Types are classified as:

* Primitive Data Types
* Non-Primitive Data Types

2. How many data types are available?

Ans 2) Following are the Data types:

3. Explain why we need data types and real time usage.

Ans 3)

4. Explain with an example when we have to use if and switch?

Ans 4) We can use the switch statement as a substitute for long if...else...if. The use of switch statements makes our code more readable.

1. Why we need access specifier?

Ans 1) Acess specifiers are used to set the accessibility of a variable/class/method.

2. What are the types available?

Ans 2) Access Specifiers: Public, Private, Protected, default

3. What are the operators available in Java?

Ans 3) Following are the types of Operators available:

1. What is an array?

Ans 1) An Array is of non-primitive type data structure. It contains elements of same data type and is used to organize data so that they can be searched or sorted easily.

2. Why we need array?

Ans 2) Array is better and convenient way of storing the data of same datatype with same size. It allows us to store known number of elements in it.

3. List out the ways to declare an array

Ans 3) following are the ways:

* int[] arr;
* int arr[];

4. How to set value in an array?

Ans 4) Following are the ways:

* int[] arr = {1,2};
* int arr[] = {1,2};
* int[] arr; arr= new int[2];
* int[] arr=new int[2];

5. I am trying to access a value from an array that is not present in my array, what is the output?

Ans 5)

6. Declare an array of int and string

Ans 6) Array of int type:

* int[] arr;
* int arr[];

Array of String type:

* String[] arr;
* String arr[];

7. What is the difference between property & method?

Ans 7) Property: Property is the behaviour. Information about the object For example: Property of a Human is his name, age, class, gender etc

Method: Methods are the functions which can be performed by that Object. For example: Method of a Human is: Writing, Eating, running etc.

1. What is difference between loop and enhanced for loop?

Ans 1) **Loop**: If we want to repeat certain line of code for a [articular number of times then loops are used to avoid writing of same code again and again. Loops are: for loop, while, do-while, switch.

**Enhanced for loop:** This is known as for-each loop. It is used to work in a sequential and an incremental order. Instead of initializing a variable lie in a normal for loop, a variable of same data type is used.

2. Write syntax for loop and enhanced loop and also an example

Ans 2) **Enhanced for loop:**

for (type var : array)

{

statements using var;

}

**For Loop:**

for (int i=0; i<arr.length; i++)

{

type var = arr[i];

statements using var;

}

1. What is constructor?

Ans 1) A Java constructor is special method that is called when an object is instantiated.

2. Types of constructor?

Ans 2) Parameterized, default

3. Does a class always contain a constructor?

Ans 3) In Java, Yes

4. What is the return type of constructor?

Ans 4) There is no return type of a constructor.

5. Is more than one constructor possible in class ? how?

Ans 5) Yes, we can have multiple constructors in a class. By using overloading, we can create as many constructors as we want in one class. Example:

**public const (){} //default**

**public const (int i) // type1**

**public const(int I, int j) //type 2**

6. I don't want anyone to create an object of my class, what I need to do?

Ans 6) Make it static.