Java : Java is an open source and pure object oriented programming language.

Version of Java

Java 1.0 Java 18/19

Java

J2SE J2EE J2ME

JavaSE JavaEE JavaME

Standard Edition Enterprise Edition Micro edition

Java basic programming

OOPs

Exception handling

Collection Framework

JDBC

Open source IDE : Eclipse,

OOPs : Object Oriented Programming system

object : object is any real world entity.

Property or state -🡪 have -🡪variable/ fields

Person

Behaviour -🡪do/does -🡪 functions / methods

Place

Bank

Animal

Car

Customer

Class : class is blue print of object or template of object.

Syntax of class.

class className {

fields;

methods;

}

package is a collection of classes and interfaces.

Data types : data type is a type of data which tells what type of data it can hold.

2 types

1. Primitive data types : it is use to store only value

8 types of primitive

1. byte 1byte
2. short 2
3. int 4
4. long 8 : without decimal number
5. float 4
6. double 8 : with decimal
7. char 2 : single character
8. boolean 1 bit : true or false value.
9. Non primitive or reference data types : it is uses to store value as well as reference of another data types

4 types

1. array
2. class
3. interface
4. enum

array : array is known a reference data types which is use to store more than one value of same types.

datatype arrayName[]; array declaration

int num[];

int num1[]={10,20,30,40,50,60}; array declaration with initialization

array start with index position zero.

System.out.println(num1[0]);

System.out.println(num1[1]);

System.out.println(num1[2]);

Using loop we can access those values one by one

While loop

Do while loop

For loop

For each loop or enhanced loop

Creating the memory size for the array

datatype arrayname[]=new datatype[size];

In Java we can take the value through keyboard lot of way

1. using Scanner class : Scanner is a pre defined class which contains lot of pre defined methods which help to take the value through keyboards.

Syntax to create the Scanner class object.

Scanner obj = new Scanner(System.in);

Scanner class is a part of util package.

java and javax are known as root package.

By default every java program import lang package.

Means we can use all classes and interfaces part of lang package without importing.

In java String is a pre defined class part of lang package.

Car

Property , wheel, color, amount etc

8 primitive + string reference data type we use to

Declare the variable.

Behaviour

We can write behaviour using function or methods in java

returnType methodName(parameterList){

}

void info() { info is method name and this method

no return type

}

String sayHello() { sayHello method name and it return string

Value

return “Welcome”;

}

void add(int x, int y) { add method passing two int value

}