

"Assignment 4"

(1) What is programming language?

⇒ Making a set of instructions that instruct a computer how to carry out a task is the process of programming language.

(2) Why do we need a programming language?

⇒ programming language is important in our daily life to enhance and increase the power of computer, mobile solutions and internet. By computer programming we conduct online banking, purchase tickets while traveling and programming makes it possible for all these things and many more.

(3) What are the features of Java?

⇒ (1) Java is a object oriented programming language because it supports Abstraction, encapsulation, Inheritance and polymorphism and all user defined types must be an object.

(2) Java is a case insensitive language because In Java upper letter and lower letters both are represented differently.

(3) Java is a portable or platform independent language because Java byte code can run in any computer or operating system if it has java compiler.

(4) Java is hybrid language means both compiled and interpreted.

(4) What is an object?

⇒ Object is an instance of class that have state and behaviour.

(5) What is a class?

⇒ Class is a collection of similar types of functions there can be many functions inside a class. Class is a template through which objects are made we have to create an object of class in order to run the java program.

(6) Explain about the main() method in java?

⇒ Main() method is the entry point into the application. The syntax to write the main() method is :-

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

Public : It is a access specifier public means it is accessible anywhere.

static : static keyword helps us to run the function without creating an object of class. static keyword is used to Associate a method of a given class, with the class rather than the object. static method in the class is shared by all objects.

void : void is a return type. when we don't want our method return anything then we use void.

Main : Main() is the entry point into the application. It is default and present in any java program.

String[] args : Arguments that get to the function by user.