

Fundamentals of Java

Assignment Questions



1. What is Programming language ?
2. Why do we need a programming language?
3. What are the features of Java?
4. What is an Object?
5. What is a class?
6. Explain about the `main()` method in Java?

Note:- Please create a Google Document and write your answers and upload the shareable link of the Google Document with view access during the submission of the assignment.

Fundamentals of Java Assignment Answers

Ans 1. It is a set of instructions written in any specific language (C, C++, Java, Python) to perform a specific task.

Ans 2. The major need for the programming language is to communicate with the computers and also they are used to develop an application for performing a specific task, automating things, etc.

Ans 3. Features of java:

- Simple
- Object Oriented
- Portable
- Platform independent
- Robust Distributed

Ans 4. An Object is an entity with state and behaviour.

Ans 5. A class is collection of objects that have similar traits, behaviours and attributes.

Ans 6. The main() is the starting point for JVM to start execution of a Java program. Without the main() method, JVM will not execute the program. The syntax of the main() method is:

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

- **public:** It is an access specifier. We should use a public keyword before the main() method so that JVM can identify the execution point of the program.
- **Static:** Static methods are the method which invokes without creating the objects.
- **Void:** Void keyword acknowledges the compiler that main() method does not return any value.
- **main():** It is called by JVM to execute a program line by line and end the execution after completion of this method.
- **String []args:** The main() method also accepts some data from the user.