

Java With DSA And System Design

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Assignment : Day 6

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?

Answers

1. What is Programming language?

A programming language is the process of programming in which a set of instructions need to be written by which the computer knows how to perform any task.

2. Why do we need a programming language?

Basically programming language is needed to develop the applications or websites that we use in our daily life. A lot of powerful solutions to solve real life problems can be implemented using various programming languages.

3. What are the features of Java?

The features of Java are:

- Object Oriented language
- Platform Independent
- Simple
- Secure
- Portability
- Robust
- Distributed

4. What is an Object?

An object is an entity with entity and behaviour which can be derived from the class. It has 3 characteristics which are state, behavior and identity.

5. What is a Class?

A class is a blue print for the objects and it is a collection of items with similar characteristics. A class can have variables, methods, constructors, blocks and nested classes.

6. Explain about the main() method in Java?

The main method() in Java is the starting point for the execution of the program for JVM. The syntax of main method() is generally looks like the below:

Public static void main(String args[])

Public: public is the access specifier, JVM will be able to see the main method only if the main method is mentioned as public.

Static: Static is a keyword which provides the feature that the methods can be invoked without any object.

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Void: Void is a return type of the method in Java which indicates that the method is not returning any value.

main(): It is a default signature for JVM from where the code starts executing line by line.

String args[]: The main method can take the group of strings as an input which is called a string array. Here args[] is just the array name and it is a string type.