

OOPs Fundamental Assignment

Assignment (8)

1. How to create an object in java?

Ans:- we create an object of the class by using the new keyword, it allocates memory (heap) for the newly created object and also returns the reference of that object to that memory. The new keyword is also used to create an array.

2. What is the use of a new keyword in java?

Ans:- new keyword is used for creating an instance of the class in java.

3. What are the different types of variables in java?

Ans:- There are three types of variables in java:-

- a. Instance variable
- b. Static variable
- c. Local variable

4. What is the difference between instance variable and local variable?

Ans:- These are the differences between instance variable and local variable:-

- a. Instance variable are defined in class but outside the body of methods but local variables are defined as a type of variable declared within programming blocks or subroutines.
- b. Instance variables are destroyed when the object is destroyed when the object is destroyed but local variables are destroyed when the constructor or method is exited.
- c. Instance variables can be accessed throughout the class but local variables access is limited to the method in which it is declared.
- d. Instance variables are given a default value if it is not assigned by code but local variables do not always have some value, so there must be a value assigned by cod.

5. In which area memory is allocated for instance variable and local variable?

Ans:- instance variables will be stored on the heap as the part of the object and local variables will be stored inside the stack.

6. What is method overloading?

Ans:- Method overloading allows different methods to have the same name, but different signatures where the signature can differ by the number of input parameters or type of input parameters, or a mixture of both.