<mark>Assignment Solution</mark>- Java Objects & Methods

1. How to Create an Object in Java?

= In java the object is created with the help of the **"new"** keyword . The object is created in the Heap memory of the computer , so that it can refer to various methods, variables and constructors .

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

= The new keyword in java is used to create the instance of the class , that is object is created when we use the new keyword .

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

= There are three types of variables in java ,
Local variables , Instance variables , Static variables .

4. What is the difference between Instance variable and Local variables?

= Instance Variables - They are stored in the Heap memory .

It is not compulsory to declare or allocate value to the instance variables , they are with their default values .

The scope of the instance variables is within the class , methods , constructor both inside and outside .

We can use the access specifier in front of the instance variables . The default specifier is always there .

Local Variables - They are stored in the Stack Memory .

It is compulsory to declare some values .

The scope of the local variables are inside the methods and the constructors .

We can't use the access specifier in case of local variables.

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

= **Instance Variables - Heap memory .**
Local Variables - Stack Memory .

6. What is method overloading?

= Method Overloading is the concept of creating similar methods or functions of the same names but having different numbers of parameters .