

## "Assignment-8"

(1) By using "new" keyword we can create an object. The syntax is:-  
class name reference variable = new classname();

(2) To create an object of class we use new keyword.

(3) Three types of variables in java:-

- (1) Instance variable
- (2) Local variable
- (3) Static variable

⇒ Instance variable ⇒

These variables are declared inside the class but outside the method. Instance variable is created at the time of object creation. It stores in heap memory and it has default values for string 'null' for integer '0'.

⇒ Local variable ⇒

These variable are declared inside the body of method. It stores in stack memory. It depends on the scope of method. Local variable has no default values. we assign a value in local variable.

⇒ Static variable ⇒

Static variable is declared by static keyword. we create a single copy of static variable and share it among all the instances of class. It declares

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Inside the class but before main method. It stores in method area memory.

- (6) Two or more methods can have same name but different parameters. Such type of methods are called method overloading.
- It can not be performed by changing the return type. It only performs by changing the parameters.