

# ASSIGNMENT-8(30 JAN)

Q. How to create an object in java?

Ans- We can use the “new” operator to create an object.

Syntax: class Test

```
{  
String name;  
int a;  
public static void main(String[] args) {  
Test t = new Test();  
}  
}
```

Q. What is the use of new keyword in java?

Ans- new is an operator to create an object , if we know the class name at the beginning then we can create an object by using new operator.

Q. What are the different types of variable in java?

Ans- Based on the type of value represented by a variable all variables are divided into 2 types. They are:

1. Primitive variables
2. Reference variables

Based on the behavior and position of declaration all variables are divided into the following 3 types.

1. Instance variables
2. Static variables
3. Local variables

Q. What is the difference between instance variable and local variables?

Ans- If the value of a variable is varied from object to object such types of variables are called instance variables. For every object a separate copy of instance variables will be created. Whereas Sometimes to meet temporary requirements of the programmer we can declare variables inside a method or block or constructors such type of variables are called local variables or automatic variables or temporary variables or stack variables.

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

Ans- Instance variables memory are allocated in heap area whereas local variables are allocated in stack memory.

Q. What is method overloading?

Ans- If a class has multiple methods having same name but different in parameters, it is known as method overloading. It reduces the complexity of the programming.