# **PW ASSIGNMENT (OOPS Assignment)**

### QUESTION → How to create an object in JAVA?

**Answer**  $\rightarrow$  by using new keyword we can create an object in java, we can create multiple object references of any class in java.

```
Example > Test obj = new Test();

So here "obj" is the object reference of test class in java .
```

### QUESTION → What are different types of variable in java?

**Answer** → Variable in Java is a data container that saves the data values during Java program execution. Different types of variables in java are -->

Local variables

```
class PWSKILL {
    public static void main(String[] args)
    {
        int var = 10; // Declared a Local Variable
        // This variable is local to this main method only
        System.out.println("Local Variable: " + var);
    }
}
```

Instance variables

```
class PWSKILL{
    public String geek; // Declared Instance Variable

public PWSKILL()
{ // Default Constructor

    this.pwskill= "Telusko sir"; // initializing Instance Variable
}
```

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```
//Main Method
   public static void main(String[] args)
   {
      // Object Creation
      PWSKILL name = new PWSKILL();
      // Displaying O/P
      System.out.println("Geek name is: " + name.pwskill);
   }
}

    Static variables

class PWSKILL{
 variable
   public static void main (String[] args) {
     //geek variable can be accessed without object creation
     //Displaying O/P
      System.out.println("Geek Name is : "+PWSKILL.geek);
   }
```

#### QUESTION $\rightarrow$ In which area memory is allocated for instance variable & local variable?

Answer  $\rightarrow$  Local variables are stored in the Stack memory area. Heap is the memory area where the object and its instance references are stored.

## QUESTION → What is method overloading in java?

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ANSWER  $\rightarrow$  When two methods having the same name , but having different parameters are called method overloading. Example-->

```
class Multiply{
public int multiply(int a, int b)
   {
       int prod = a * b;
       return prod;
    }
public int multiply(int a, int b, int c)
   {
       int prod = a * b * c;
       return prod;
   }
}
Class Main{
public static void main(String[] args){
Multiply mul = new multiply();
Mul.multiply(10,5); //this will give op as -->50
Mul.multiply(10,10,10); // this will give op as -->1000
}
}
```

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