
Learn and understand scope of variables ,Demonstrate it with an suitable example.

```
class Hospital{
    //Instance variable
    String patientName;
    int patientid;
    //Static(class) variable
    static String DocName="Dr. Murthy";
    void sethospital(String pN,int pId)
    {
        patientName=pN;
        patientid=pId;
    }
    String getpatientName()
    {
        return patientName;
    }
    int getpatientid()
    {
        return patientid;
    }
}

Public class DemoScopeofVariables{
    public static void main(String args[])
    {
        //Local variable
        String hospitalName="Apollo Hosapital";

        Hospital patient1=new Hospital();
        patient1.sethospital("Anita Joseph",101);
        System.out.println("The patient " +patient1.getpatientName()+ " With the Id "
+patient1.getpatientid()+ " is treated by " +patient1.DocName+ " at " +hospitalName);
    }
}
```

Output

The patient Anita Joseph With the Id 101 is treated by Dr. Murthy at Apollo Hosapital

Learn and understand default values of instance variables, demonstrate it with a suitable example.

```
class values
{
    byte Byte;
    int integer;
    long Long;
    short Short;
    boolean Boolean;
    String string;
    float Float;
    char ch;
    double Double;
    void getvalues()
    {
        System.out.println("The Default value of primitive datatype Byte : "+ Byte);
        System.out.println("The Default value of primitive datatype Integer : "+ integer);
        System.out.println("The Default value of primitive datatype long : "+ Long);
        System.out.println("The Default value of primitive datatype Short : "+ Short);
        System.out.println("The Default value of primitive datatype Boolean : "+
Boolean);
        System.out.println("The Default value of string : "+ string);
        System.out.println("The Default value of primitive datatype Float : "+ Float);
        System.out.println("The Default value of primitive datatype char : "+ ch);
        System.out.println("The Default value of primitive datatype double : "+ Double);
    }
}

public class defaultvalues
{
    public static void main(String[] args)
    {
        values var=new values();
        var.getvalues();
    }
}
```

Output:

The Default value of primitive datatypeByte : 0
The Default value of primitive datatypeInteger : 0
The Default value of primitive datatypeLong : 0
The Default value of primitive datatypeShort : 0
The Default value of primitive datatypeBoolean : false
The Default value of string : null
The Default value of primitive datatypeFloat : 0.0
The Default value of primitive datatypechar :
The Default value of primitive datatypedouble : 0.0

Learn and understand what are command line arguments? Write a program to implement the same.

```
public class CommandLine {  
    public static void main(String[] args) {  
        if (args.length>0) {  
            System.out.println("Java Buzzwords....");  
            for(byte i=0;i<args.length;i++) {  
                System.out.println((i+1)+" . "+ args[i]);  
            }  
        }  
        else {  
            System.out.println("NO COMMANDLINE ARGUMENT FOUND");  
        }  
    }  
}
```

OUTPUT

Java Buzzwords....

1. Compiled&Interpreted
 2. Dunamic&Extensible
 3. Robust&Secure
 4. PlatformIndependant
 5. Highperformance
-

Learn and Understand how to Instantiating and ,Demonstrate it with by creatingStudent Class.

```
class Student
{
    String StudName,dept;
    int Rollno;
    static String c/g = "GPT";
    int percentage;
    void setStudent(String Name, int rollno,String cdept,int per)
    {
        StudName = Name;
        Rollno = rollno;
        dept=cdept;
        percentage=per;
    }
    void getStudent()
    {
        System.out.println(StudName+"\t"+Rollno+"\t"+c/g+"\t"+dept+"\t"+percentage)
    }
}

class Stud
{
    public static void main(String args[])
    {
        System.out.println("Name\tRollno\tCollege\tDepartment\tPercentage");
        Student Stud1 = new Student();
        Student Stud2 = new Student();
        Stud1.setStudent("Sindhu",155,"CS",88);
        Stud2.setStudent("Madhu",100,"EC",90);
        Stud1.getStudent();
        Stud2.getStudent();
    }
}
```

Output:

Name RollnoCollegeDepartment Percentage
Sindhu155GPT CS 88
Madhu100 GPT EC 90

You are assigned a task of issuing 10% bonus for all female employees of an organization on account of International Women's Day. Design and implement a java program for the same

```
class Employee
{
    String empName;
    int empNo;
    byte expYrs;
    String gender;
    double basicSalary;
    double bonus;
    double netSalary;
    void setEmployee(String Name,int no,String sex,byte ex,double basicsalary)
    {
        empName=Name;
        empNo=no;
        gender=sex;
        expYrs=ex;
        basicSalary=basicsalary;
    }
    void getEmployeeDetails()
    {
        if(gender == "female")
        {
            bonus=basicSalary*10/100;
            netSalary=basicSalary+bonus;
        }
        else
            netSalary=basicSalary;
        System.out.println(empName+"\t"+empNo+"\t"+gender+"\t"+expYrs+"\t"+
            basicSalary+"\t"+bonus+"\t"+netSalary+"\n");
    }
}
```

Output:

empName	empNo	gender	expYrs	basicSalary	bonus	netSalary
Rashmi	128966	female	20	100000.0	10000.0	110000.0
Rakesh	7851161	male	25	200000.0	0.0	200000.0
madhu	7851161	female	25	150000.0	15000.0	165000.0