

DemoScopeofVariables.java X

```
1
2 //Learn and understand scope of variables,Demonstrate it with an suitable example.//
3 package week2;
4 class Hospital
5 {
6     //Instance variable
7     String patientName;
8     int patientid;
9     //Static(class) variable
10    static String DocName="Dr.Murthy";
11    void sethospital(String pN ,int pld)
12    {
13        patientName=pN; patientid=pld;
14    }
15    String getpatientName()
16    {
17        return patientName;
18    }
19    int getpatientid()
20    {
21        return patientid;
22    }
23 }
24
```

```
1 //Learn and understand what are command line arguments? Write a program to implement the same.
2 package week2;
3 public class CommandLine
4 {
5     public static void main(String[] args)
6     {
7         if (args.length>0)
8         {
9             System.out.println("Java Buzzwords....");
10            for(byte i=0;i<args.length;i++)
11            {
12                System.out.println((i+1)+". "+ args[i]);
13            }
14        }
15        else
16        {
17            System.out.println("NO COMMANDLINE ARGUMENT FOUND ");
18        }
19    }
20 }
21
```

Problems @ Javadoc Declaration Console

<terminated> CommandLine [Java Application] C:\Users\admin\Desktop\birthday\diploma\software\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugins\org.eclipse.j

Java Buzzwords....

1. robust
2. secure
3. object
4. oriented
5. platform
6. independent

```

15 public void giveBonus() {
16     if (gender.equalsIgnoreCase("female")) {
17         double bonus = salary * 0.1;
18         salary += bonus;
19         System.out.println(name + "'s salary after bonus: " + salary);
20     } else {
21         System.out.println(name + " is not eligible for bonus.");
22     }
23 }
24 }
25
26 public class BonusForFemaleEmployees {
27     public static void main(String[] args) {
28         List<Employee> employees = new ArrayList<>();
29         employees.add(new Employee("Alice", "Female", 50000));
30         employees.add(new Employee("Bob", "Male", 60000));
31         employees.add(new Employee("Eve", "Female", 55000));
32
33         System.out.println("Issuing 10% bonus for female employees:");
34         for (Employee emp : employees) {
35             emp.giveBonus();
36         }
37     }
38 }

```

Problems @ Javadoc Declaration Console X

<terminated> BonusForFemaleEmployees [Java Application] C:\Users\admin\Desktop\birthday\diploma\software\eclipse-java-2023-12-R-win32-x86\_64\eclipse\plugin

```

Issuing 10% bonus for female employees:
Alice's salary after bonus: 55000.0
Bob is not eligible for bonus.
Eve's salary after bonus: 60500.0

```

BonusForFemaleEmployees.java × employee.java

```
1 import java.util.ArrayList;
2
3
4 class Employee {
5     String name;
6     String gender;
7     double salary;
8
9     public Employee(String name, String gender, double salary) {
10         this.name = name;
11         this.gender = gender;
12         this.salary = salary;
13     }
14
15     public void giveBonus() {
16         if (gender.equalsIgnoreCase("female")) {
17             double bonus = salary * 0.1;
18             salary += bonus;
19             System.out.println(name + "'s salary after bonus: " + salary);
20         } else {
21             System.out.println(name + " is not eligible for bonus.");
22         }
23     }
24 }
25
```



```
1 //Learn and Understand how to Instantiating and Demonstrate it with by creating Student Class.
2 package week2;
3 class Student
4 {
5     String StudName,dept;
6     int Rollno;
7     static String clg = "GPT";
8     int percentage;
9     void setStudent(String Name, int rollno, String cdept,int per)
10    {
11        StudName=Name;
12        Rollno = rollno;
13        dept=cdept;
14        percentage=per;
15    }
16    void getStudent()
17    {
18        System.out.println(StudName+"\t" +Rollno+"\t"+clg+"\t"+dept+"\t\t"+percentage);
19    }
20 }
21
```