*Dt : 27/7/2023*

*wap to read employee bSal and calculate totSal?*

*I/p : bSal,hra,da*

*calculation : totSal = bSal+((float)(hra/100)*bSal)+((float)(da/100)*bSal);*

*Conditions :*

*bSal mut be min 12000/-*

*hra and da must be in b/w 1 to 100*

*Program : DemoMethods4.java*

```
import java.util.Scanner;
class Salary
{
	float cal(int bSal,int hra,int da)
	{
		float tSal = bSal+((float)(hra*bSal)/100)+((float)(da*bSal)/100);
		return tSal;
	}
}
class DemoMethods4
{
	public static void main(String[] args)
```

```
    {
Scanner s = new Scanner(System.in);
      System.out.println("Enter Employee-bSal:");
      int bS = s.nextInt();
      if(bS>=12000)
            {
              System.out.println("Enter HRA:(1 to 100)");
              int hra = s.nextInt();
              System.out.println("Enter DA:(1 to 100)");
              int da = s.nextInt();
              if((hra>=1 && hra<=100) && (da>=1 && da<=100))
                    {
                      Salary ob = new Salary();
                      float totSal = ob.cal(bS,hra,da);
                      System.out.println("Employee-TotSal="+totSal);
                    }
                    else
                    {
                            System.out.println("Invalid hra or da...");
                    }
            }
            else
```

```
                {
                        System.out.println("Invalid bSal...");
                }
        }
}
```

*o/p:*

*Enter Employee-bSal:*

*18000*

*Enter HRA:(1 to 100)*

*51*

*Enter DA:(1 to 100)*

*93*

*Employee-TotSal=43920.0*

*==========*

*Assignment:*

*wap to read Six sub marks of a Student and calculate "totMarks and Per"*

*I/p : 6 Sub marks*

*Calculation : totMarks and per*

*Condition:*

*All SubMarks must be in b/w 0 to 100,then calculate "totMarks" and "per"*

*SubClass : Percentage*

*=>float per(totMarks)*

*MainClass : StuMainClass*

*=>main()*

*=>read 6 sub marks*

*=>calculate totMarks*

*o/p:*

*totMarks =*

*per =*

*==========*

*Ex-program:*

*wap to read two integer values and display the following based on user choice:*

*1.GreaterValue*

*2.SmallerValue*

*Program : DemoMethods5.java*

```
import java.util.Scanner;
class GreaterValue
{
```

```
        int greater(int x,int y)
        {
                if(x>y)
                {
                        return x;
                }
                else
                {
                        return y;
                }
        }
}
class SmallerValue
{
        int smaller(int x,int y)
        {
                if(x<y)
                {
        return x;
                }
                else
                {
```

```
                return y;
            }
        }
}
class DemoMethods5
{
        public static void main(String[] args)
        {
            Scanner s = new Scanner(System.in);
            System.out.println("Enter int value-1:");
            int v1 = s.nextInt();
      System.out.println("Enter int value-2:");
            int v2 = s.nextInt();
            if(v1==v2)
            {
                System.out.println("The values are equal...");
            }
            else
            {
                System.out.println("****Choice****");
                System.out.println("1.GreaterValue\n2.SmallerValue");
                System.out.println("Enter the Choice:");
```

```
                int choice = s.nextInt();
                switch(choice)
                {
                        case 1:
                                GreaterValue gv = new GreaterValue();
                           int r1 = gv.greater(v1,v2);
                                System.out.println("GreaterValue:"+r1);
                                break;
                        case 2:
                                SmallerValue sm = new SmallerValue();
                           int r2 = sm.smaller(v1,v2);
                                System.out.println("SmallerValue:"+r2);
                                break;
        default:
                                System.out.println("Invalid Choice....");
                        }
                }
        }
}
```

*o/p:*

*Enter int value-1:*

*12*

*Enter int value-2:*

*13*

*****Choice*****

*1.GreaterValue*

*2.SmallerValue*

*Enter the Choice:*

*1*

*GreaterValue:13*

*==========*

*faq:*

*define switch-case statement?*

*=>switch-case statement is used to select one from multiple available options or*

*cases.*

*syntax:*

```
switch(value)
{
 case 1 : statements;
 break;
 case 2 : statements;
```

```
 break;
 ...
 case n : statements;
 break;
 default : default_statements;
}
```

*Execution behaviour:*

*=>The switch-value is compared with available cases and,if match occurs the statements are executed and switch-case is stopped using 'break'*

*=>If the switch-value is not compared with any available cases then 'default' is executed.*

==========