

DATE :16-09-2020

DAY : Wednesday

1.Create a class called *Employee* that includes three pieces of information as instance variables—a first name (*typeString*), a last name (*typeString*) and a monthly salary (*double*). Your class should have a constructor that initializes the three instance variables. Provide a set and a get method for each instance variable. If the monthly salary is not positive, set it to 0.0. Write a test application named *EmployeeTest* that demonstrates class *Employee*'s capabilities. Create two *Employee* objects and display each object's yearly salary. Then give each *Employee* a 10% raise and display each *Employee*'s yearly salary again.

Program :

```
class Employee
{
    String fname,lname;
    double salary;

    Employee(String fname,String lname,double salary)
    {
        this.fname=fname;
        this.lname=lname;
        if(salary <0)
            salary=0.0;
        else
            this.salary=salary;
    }

    void setFname(String fname)
    {
        this.fname=fname;
```



```
}
```

```
void setLname(String lname)
```

```
{
```

```
    this.lname=lname;
```

```
}
```

```
void setSalary(double s)
```

```
{
```

```
    if(salary<0)
```

```
        salary=0.0;
```

```
    else
```

```
        salary=s;
```

```
}
```

```
String getFname()
```

```
{
```

```
    return fname;
```

```
}
```

```
String getLname()
```

```
{
```

```
    return lname;
```

```
}
```

```
double getSalary()
```

```
{
```

```
    return salary;
```

```
}
```



```

    double raiseSalary(int percent)
    {
        salary+=salary*(percent/100.0);
        return salary;
    }
}

public class Main {
    public static void main(String[] args) {
        Employee e1=new Employee( "Emp1 :"+"Venkatesh ", "ChowdaryI",30000.0);
        Employee e2=new Employee("Emp2::" + "Sham", "Chowdary",40000.0);

        System.out.println(e1.getFname()+e1.getLname()+" "+e1.getSalary());

        double sal=e1.raiseSalary(10);
        System.out.println("Annual salary is :"+(12*sal));

        System.out.println(e2.getFname()+e2.getLname()+" "+e2.getSalary());

        double sal1=e2.raiseSalary(10);
        System.out.println("Annual salary is :"+(12*sal1));
    }
}

```

Output ::

The first employee : Venkatesh ChowdaryI 100000.0

Annual salary is :1200000.0



The second employee ::Sham Chowdary 50000.0

Annual salary is :600000.0

2. Create a class called Invoice that a hardware store might use to represent an invoice for an item sold at the store. An Invoice should include four pieces of information as instance variables-a part number(type String),a part description(type String),a quantity of the item being purchased (type int) and a price per item (double). Your class should have a constructor that initializes the four instance variables. Provide a set and a get method for each instance variable.In addition, provide a method named getInvoice Amount that calculates the invoice amount (i.e., multiplies the quantity by the price per item), then returns the amount as a double value. If the quantity is not positive, it should be set to 0. If the price per item is not positive, it should be set to 0.0. Write a test application named InvoiceTest that demonstrates class Invoice's capabilities.

Program:

Class Invoice

```
{  
  
    String pno,pdesc;  
    Int quantity;  
    Double price;  
  
    Invoice(String pno,String pdesc,int q,double price)  
    {  
  
        This.pno=pno;  
        This.pdesc=pdesc;  
  
        If(q<0)  
            Quantity=0;  
        Else  
            Quantity=q;  
    }  
}
```



```
        If(price<0)
            Price=0.0;
        Else
            This.price=price;
    }
```

```
Void setPno(String pno)
{
    This.pno=pno;
}
```

```
Void setDesc(String pdesc)
{
    This.pdesc=pdesc;
}
```

```
Void setQuantity(int q)
{
    If(q<0)
        Quantity=0;
    Else
        Quantity=q;
}
```

```
Void setPrice(double p)
{
    If (p<0)
        Price=0.0;
```



```
        Else
            Price=p;
    }

    String getPno()
    {
        Return pno;
    }

    String getPdesc()
    {
        Return pdesc;
    }

    Int getQuantity()
    {
        Return quantity;
    }

    Double getPrice()
    {
        Return price;
    }

    Double getInvoiceAmount()
    {
        Return (quantity*price);
    }
}
```



```

Public class Main {
    Public static void main(String[] args) {
        Invoice i1=new Invoice("95","desktop",10,5000.0);
        Invoice i2=new Invoice("88","keyboard",10,225.0);

        System.out.println(i1.getPno() +" "+ i1.getPdesc() +" "+i1.getPrice());
        System.out.println("The invoice Amount :"+i1.getInvoiceAmount());

        System.out.println(i2.getPno() +" "+ i2.getPdesc() +" "+i2.getPrice());
        System.out.println("The invoice Amount :"+i2.getInvoiceAmount());

    }
}

```

Output :

95desktop4700.0

The invoice Amount :50000.0

88 keyboard225.0

The invoice Amoumous2250.0

