**KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION**
**JAVA PROGRAMMING- CSE 18R272**

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**1.Aim: 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 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 firstname;
   String lastname;
   double salary;
   public Employee(String fn,String ln,double sal){
      firstname = fn;
      lastname = ln;
      if(salary<0){
         salary=0.0;
      }
      else{
         salary = sal;
      }
   }
   void setFn(String fn){
      firstname = fn;
   }
   void setLn(String ln){
      lastname=ln;
   }
   void setSal(double sal){
      if(salary<0){
         salary=0.0;
      }
      else{
         salary = sal;
      }
   }
   String getFn(){
      return firstname;
```

```
    }
    String getLn(){
        return lastname;
    }
    double getsal(){
        return salary;
    }
    double sal(int percent){
        salary+=salary*((percent/100.0));

        return salary;
    }

}
public class Main
{
        public static void main(String[] args) {
                Employee em1 = new Employee("ravi","sankar",40000);
                Employee em2 = new Employee("srinu","keerthi",50000);

                System.out.println(em1.getFn() + em1.getLn() +em1.getsal());
                System.out.println(em2.getFn() + em2.getLn() +em2.getsal());
                double s = em1.sal(10);
                System.out.println("Annual salary is " + (s*12));
                double s2 = em2.sal(15);
                System.out.println("Annual salary is " + (s2*12));
        }
}
```

**OUTPUT:**

```
$javac Main.java
$java -Xmx128M -Xms16M Main
ravisankar40000.0
srinukeerthi50000.0
Annual salary is 528000.0
Annual salary is 690000.0
```

**2.Aim: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.**

**Program:**

```
class Invoice{
    String partnumber;
    String partdescription;
    double price;
    int quantity;
    public Invoice(String pno,String pds,double rate,int qu){
        partnumber = pno;
        partdescription = pds;
        price = rate;
        quantity = qu;
        if(price<0){
            price=0.0;
        }
        else{
            price = rate;
        }
        if(quantity<0){
            quantity=0;
        }
        else{
            quantity = qu;
        }
    }
    void setPno(String pno){
        partnumber = pno;
    }
    void setPds(String pds){
        partdescription = pds;
    }
    void setPrice(double rate){
        if(price<0){
            price=0.0;
        }
        else{
            price = rate;
        }
    }
```

```
    void setQu(int qu){
        if(quantity<0){
            quantity=0;
        }
        else{
            quantity = qu;
        }
    }
    String getPno(){
        return partnumber;
    }
    String getPds(){
        return partdescription;
    }
    double getPrice(){
        return price;
    }
    int getQuant(){
        return quantity;
    }
    double getInvoice(){
        return (price*quantity);
    }

}
public class Main
{
        public static void main(String[] args) {
                Invoice i = new Invoice("abc34","key board",120,4);
                System.out.println("the invoice is " + i.getPno() + " "+i.getPds()+"
"+i.getPrice()+" "+i.getQuant());
                double bill = i.getInvoice();
                System.out.println("the net amount is "+ bill );

        }
}
```

**OUTPUT:**

```
 $javac Main.java
 $java -Xmx128M -Xms16M Main
the invoice is abc34 key board 120.0 4
 the net amount is 480.0
```