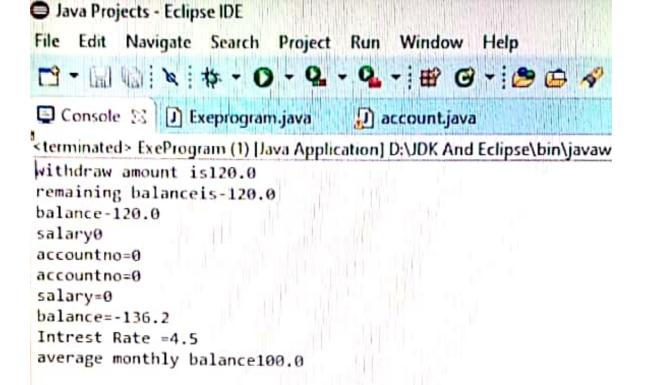
```
public class student {
    int rollno=1706;
    String subj="IT";
    String Sem="2nd";
  6
     void display() {
         System.out.println(rollno);
         System.out.println(subj);
10
         System.out.println(Sem);
    class ExeProgram(
        public static void main(String[]args) {
14
15
            student obj=new student();
16
            obj.display();
             student obj - ExeProgram.main(String[])
                                  Press F2 for farm
```

public vaid Deposite (int depart) 3
if (dep Amnt 2=0) 3
System out printly Invalled Deposite Amount);
1 else
5
· Balance Arnot = Ballance Amnt + dep Amnt;
-
3
public void nithorau(int dromAmnt) 3
if (draw Amnt Leo II draw Amnt Savance Amnt) }
System-out-printing invalid withDraw Amount ");
Telse
without guy
Balance Amnt = Balance Amnt - chrown Amnt;
}
3
3

```
shape.java 🚧
E Console
    public class shape {
  1
      System.out.println("there are many shapes");
  3
  40
  5
  6
    class circle extends shape {
  7
         public void shape() {
     System.out.println("circle ha 2 sides");
  9
▲10⊕
 11
 12
 13
     }
     class square extends shape {
 14
 15
▲ 6
         public void shape() {
      System.out.println("square ha 4 sides");
 18
 19
 20
     class triangle extends shape {
 21
 22
  23
         public void shape() {
      System.out.println("triangle has 3 sides");
▲24÷
  25
         )
  26
  27
  28
     /*class main{
     public static void main(String[]args) {
  29
  30
     shape c=new circle();
  31
     shape s=new square();
  32
     shape t=new triangle();
  33
      c.shape();
  34
      s.shape();
  35
      t.shape();
  36
  37
  38
       1.7
  39
  46
  41
```

```
package inheritence;
 2
   public class vehicle {
 3
     int seats;
5
     int tyre;
    String breaks;
6
7
80 public vehicle(int s,int t,String b) {
9
   seats=s;
   tyre=t;
10
11
   breaks=b;
12
13
         System.out.println("seats: "+seats+"\ntyre: "+tyre+"\nbreaks: "+breaks);
14⊕ void Display() (
15
        /* System.out.println("seats" +seats);
ľ,
         System.out.println("tyre" +tyre);
        . System.out.println("breaks" +breaks); */
18
19
20
21
    }
     class car extends vehicle{
22
        String carcolor;
23
        String carmodel;
24
25
            public car(int s,int t,String b,String cc,String cm) {
269
                super(s,t,b);
27
                this.carcolor=cc;
28
                this.carmodel=cm;
29
38
31
32- public void setmethod() {
        carcolor="red";
33
        carmodel="sgd7555";
34
35
36-void display() {
        System.out.println("\n carcolor= "+"\n carmodel= "+carmodel);
37
        /* System.out.println("carcolor"+carcolor);
38
         System.out.println("carmodel"+ carmodel);"/
39
43
41
    class Exeprogram(
43- public static void main(String[]args) {
        car obj=new car(4,4,"yes", "red", "sgd7555");
44
        obj.Display();
45
        obj.display();
45
47
48
49
50
51
52
```



```
1
  2 public class ExeProgram {
  3
        public static void main(String [] args) {
        Rectangle r1=new Rectangle();
        r1.set_length(15);
        r1.set width(2);
        r1.cal Area();
        r1.cal_Peri();
 10
        r1.display();
 11
 12
 13
14
        }
 15 }
 16
```

■ Console ☎

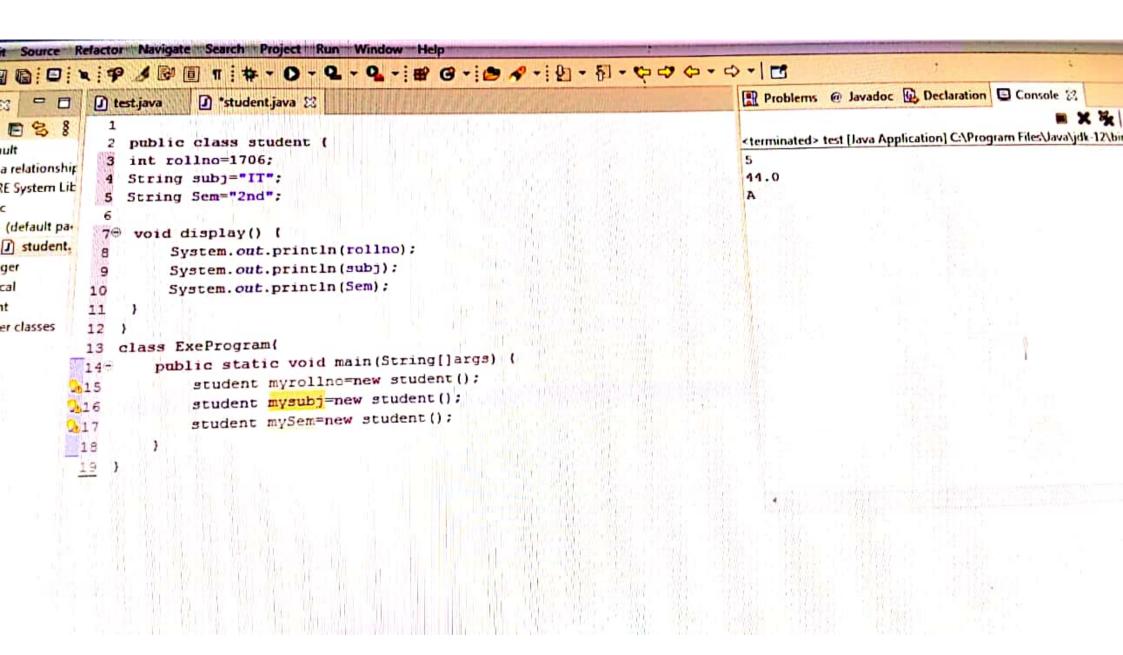
<terminated> ExeProgram (2) [Java Application] E:\New folder\Ecllips\jre\bin\javaw.exe (Dec 14, 2021, 9:30:05 PM - 9:30:05 PM)

Length=15.0

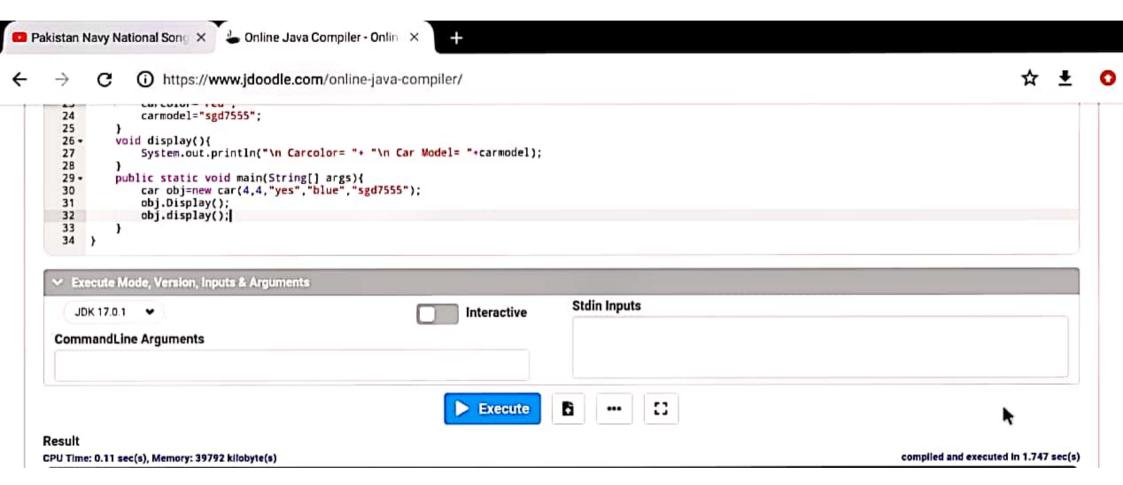
Width=2.0

Area=30.0

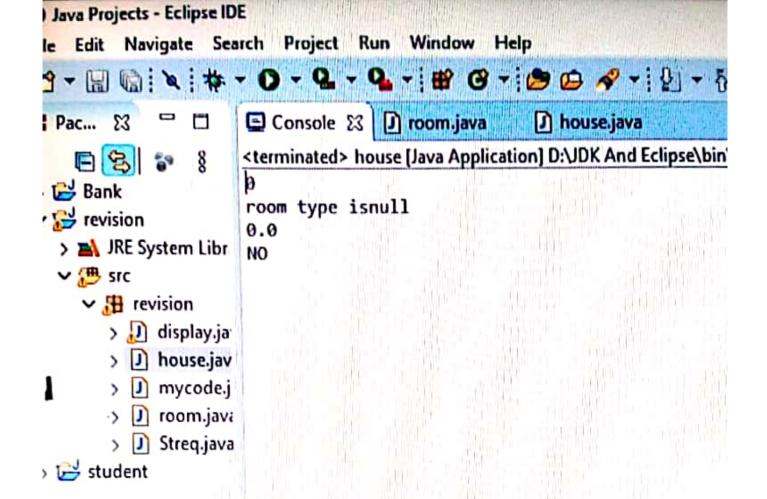
Perimeter=34.0



```
1
     package revision;
  2
  3
     public class display {
 4
 5⊝
         /*public static void main(String[]args)
 6
 7
             defValue v1=new defValue();
 8
             String name;
 9
             System.out.println(v1.s);
             System.out.println(v1.i);
10
11
             System.out.println(v1.1);
12
             System.out.println(v1.b);
13
             System.out.println(v1.c);
14
             System.out.println(v1.name);
15
             System.out.println(v1.d);
16
17
         1.1
             class defValue{
18-
             short s;
19
             int i;
20
             long 1;
21
             boolean b;
22
23
             char c;
24
             float f;
25
            String name;
            double d;
26
27
28
29
30
31
32
```



thing break by void Display () 3 5.0. Dinit souls); 11 (+ tyre) ("braix" + break) Class car extends vehicle ? Strong autractes. public can (String ac, String cm) = - > construction Strong Folor = CC; void setmethal () String caroline = "Red", Strong carmodel = " BIOI " : void display () 3 So poi + car colant); sop in (-1(irmodel)



```
am/src/ExeProgram.java - Eclipse IDE
efactor Navigate Search Project Run Window Help
   Q-Q-Q-BBB-B-B-7-19 J. BB 11 11 9 - 31- 5-5-0-
                                                                J Rectangle java
                                                  3 Bankjava
🔝 ExeProgram.java 🖾 🗓 Distance.java
                                   J) Address.java
   1
     public class ExeProgram {
   2
   3
          public static void main(String args[]) {
   4<del>0</del>
               defValue v1=new defValue();
   5
               String name;
  6
               System.out.println(v1.i);
   7
               System.out.println(v1.name);
   8
               System.out.println(v1.c);
   9
               System.out.println(v1.dou);
  10
  11
  12
  13
     class defValue{
  14
            int i;
15
            String name;
  16
  17
            char c;
            double dou;
  18
  19
  20 }
Console 🖾
<terminated> ExeProgram (2) [Java Application] E:\New folder\Ecilips\jre\bin\javaw.exe (Jan 14, 2022, 10:43:28 PM - 10:43
0
null
0.0
```

```
I leacherjava ↔
                *ExeProgram.java
Employ.java
           System.out.println("Enter Teacher Age");
           this.age=s1.nextInt();
14
           System.out.println("Enter Teacher Address");
15
           this.address=s1.next();
16
17
       public void showTeacherData()
18⊕
19
           System.out.println("Teacher Name: "+Name);
20
           System.out.println("Teacher Age: "+age);
21
           System.out.println("Teacher Address: "+address);
22
23
24 )
  class Writer extends Teacher{
25
       protected String Name, address;
26
       protected int books;
27
28
29
       public void setWriterData() {
30<del>0</del>
           System.out.println("Enter Writer Name");
31
           this.Name=s1.next();
32
           System.out.println("Enter Writer Age");
33
           this.books=s1.nextInt();
34
           System.out.println("Enter Writer Books");
35
           this.address=s1.next();
36
37
       public void showWriterData()
38⊖
39
           System.out.println("Writer Name: "+Name);
48.
           System.out.println("Writer Age: "+books);
           System.out.println("Writer Address: "+address);
42
43
       }
45 }
45
47
48 class Scholar extends Writer{
49
50 }
51
52
53
```

Smart Insert

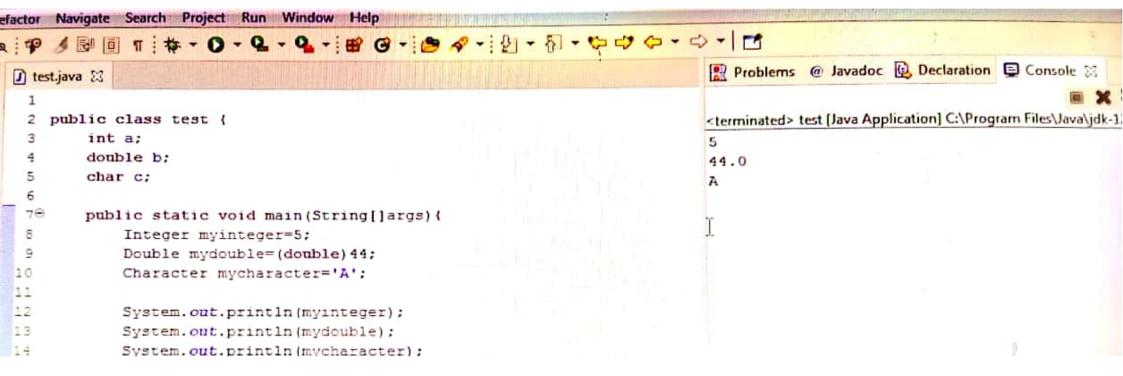
51:1:1150

Writable

```
2 public class Bank {
        private String Name;
 4
 5
        private int AccNo;
 6
        private String AccType;
 7
        private float BalanceAmnt;
 8
 90
        public Bank() {
10
            this.Name=null;
11
            this.AccNo=0;
12
            this.AccType=null;
13
            this.BalanceAmnt=0;
14
15⊝
        public Bank(String Name, int AccNo, String AccType, float BalanceAmnt) {
16
            this.Name=Name;
17
            this.AccNo=AccNo;
18
            this.AccType=AccType;
19
            this.BalanceAmnt=BalanceAmnt;
20
21
22⊕
       public void Deposite(int depAmnt) {
23
           if(depAmnt<=0) {
24
               System.out.println("Invalid Deposite Amount");
25
            }else
26
27
               BalanceAmnt=BalanceAmnt+depAmnt;
29
30
31⊖
       public void withDraw(int drawAmnt) {
           if(drawAmnt<=0||drawAmnt>BalanceAmnt) {
32
33
               System.out.println("invalid WithDraw Amount");
           }else
               BalanceAmnt=BalanceAmnt-drawAmnt;
```

11 3

```
return length;
public void set_width(float width) {
    if(width<=0.0&&width>20.0) {
        System.out.println("Invalid Entery");
    }else {
    this.width=width;
public float get_width() {
    return width;
public void cal Area() {
    area=length*width;
 public void cal Peri() {
    peri=(2*(length+width));
 public void display() {
     System.out.println("Length="+length);
     System.out.println("Width="+width);
     System.out.println("Area="+area);
     System.out.println("Perimeter="+peri);
 }
```



```
import java.util.*;
   2
      public class Teacher {
   4
   5
          protected String Name, address;
  6
         protected int age;
  7
  8
         Scanner s1=new Scanner (System.in);
  9
 109
         public void setTeacherData() {
             System.out.println("Enter Teacher Name");
 11
 12
             this.Name=s1.next();
            System.out.println("Enter Teacher Age");
13
            this.age=s1.nextInt();
14
            System.out.println("Enter Teacher Address");
15
            this.address=s1.next();
16.
17
18⊕
        public void showTeacherData()
19
20
            System.out.println("Teacher Name: "+Name);
            System.out.println("Teacher Age: "+age);
21
22
           System.out.println("Teacher Address: "+address);
23
24
25
  class Writer extends Teacher{
26
       protected String Name, address;
       protected int books;
27
      public void setWriterData() {
0⊖
          System.out.println("Enter Writer Name");
          this.Name=s1.next();
          System.out.println("Enter Writer Age");
          this.books=s1.nextInt();
          System.out.println("Enter Writer Books");
         this.address=s1.next();
     public void showWriterData()
         System.out.println("Writer Name: "+Name);
         System.out.println("Writer Age: "+books);
```

Writable

Smart Insert

1:1:0

Scanned with CanScanner

```
1
   public abstract class Address {
       protected int HouseNo;
       protected int StreetNo;
 5
       protected String City;
       public Address() {
 89
           this.HouseNo=0;
 9
           this.StreetNo=0;
10
           this.City=null;
11
12
       public Address(int HouseNo, int StreetNo, String City) {
13⊕
           this.HouseNo=HouseNo;
14
           this.StreetNo=StreetNo;
15
           this.City=City;
16
17
18
19 }
   class Person extends Address{
20
       private String Name;
21
22
       public Person() {
23⊕
           super();
24
           this.Name=null;
25
26
       public Person(int HouseNo, int StreetNo, String City, String Name) {
27⊖
           super(HouseNo, StreetNo, City);
28
29
           this.Name=Name;
30
       public void display() {
32
           System.out.println("Name: "+Name);
33
            System.out.println("HouseNo: "+HouseNo);
34
            System.out.println("StreetNo: "+StreetNo);
35
           System.out.println("City: "+City);
36
       }
37 }
38
```

MTWTFS

7.	bi. display();
	3
	3
-	
4.9	

```
public class Student1 (
       private String name;
 4
 5
       public void changeName(String name) {
 6€
           this.name=name;
 8
 g-
       public void displayName() {
10
            System.out.println(name);
11
12
13 class main {
614=
        public static void main(String []args) []
15
            Student1 s1=new Student1();
16
            s1.changeName("John");
17
            s1.displayName():
18
        }
19
20 }
 21
 22
```

```
public class test (
                                               int a:
                                               double b:
                                                char c;
                                                  Integer myinteger=5;
                                                  Double mydouble=(double) 44;
                                                  Character mycharacter='A';
10
110
                                                    public static void main (String[]args) (
                                                                                 test obj=new test();
 12
                                                                                 obj.display();
  13
   14
    16- void display() {
                                                                                    System.out.println(myinteger);
                                                                                    System.out.println(mydouble);
                                                                                     System.out.println(mycharacter);
     19
                                                                                                                                                                                                                                                                                                                                            nal distribution and the state of the state
```

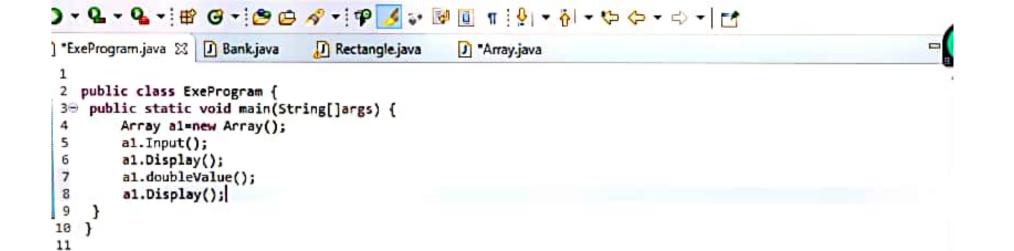
<terminated> test [Java Application] C:\Program Files\Ja

44.0

energy <mark>phillipping to high the phillipping to the </mark>

The trade of the deal region of the policy and the

```
Project Explorer
E Console
 1 package inheritence;
            System.out.println("the animal makes sound");
  3 public class animal {
        public void animalsound() {
  48
  5
  6
    class cat extends animal{
  7
        System.out.println("the cat says meow meow");
▲10⊖ public void animalsound() {
 12 }
 13 }
 15 class dog extends animal(
        System.out.println("the cat says wow wow");
public void animalsound() {
 18
 19 }
 20 }
          public void main(String[]args){
    class main{
  21
             animal myanimal=new animal();
222=
              animal mycatenew cat();
 23
              animal mydog=new dog();
 24
 25
             myanimal.animalsound();
 26
             mycat.animalsound();
 27
             mydog.animalsound();
  28
 29
 30
 31
         }
 32
     }
 33
 34
```



```
import java.util.*;
   public class Employ {
    protected String Name;
    protected int No;
    Scanner s1=new Scanner(System.in);
    public void inputData() {
 9
         System.out.println("Enter Employee Name");
10
        this.Name=s1.next();
         System.out.println("Enter Employee Number");
11
12
         this.No=s1.nextInt();
13
    public void show() {
149
         System.out.println("Name is:"+Name+"\nNumber is:"+No);
15
16
17
18
   class Manager extends Employ {
19
20
        private String title;
        private int golfDues;
21
22
        public void setData() {
23⊕
             System.out.println("Enter Manager Title");
24
             this.title=s1.next();
25
             System.out.println("Enter Manager GolfDues");
26
             this.golfDues=s1.nextInt();
27
28
       public void showManagerData() {
29⊕
             System.out.println("Title is:"+title+"\nDues are:"+golfDues);
30
31
32
33 }
34
   class Scientist extends Employ{
35
       private int publications;
36
37
        public void setPub (int pub) {
38⊜
            this.publications=pub;
39
40
       public void showPublication() {
41⊖
    <
```

Smart Insert

Writable

1:1:0

```
import java.util.*;
  public class Array {
4
5
       int[] arr =new int[5];
6
       Scanner s1=new Scanner(System.in);
7
89
       public Array() {
           for(int i=0;i<5;i++) {
9
LØ.
               arr[i]=-1;
11
12
13
       public void Input() {
14
15
            for(int i=0;i<5;i++) {
16
                System.out.println("Enter value for "+i+" Index");
17
                arr[i]=s1.nextInt();
18
19
20
21⊖
        public void Display() {
22
            for(int i=0;i<5;i++) {
23
                System.out.println("Value on "+i+" index is "+arr[i]);
24
 25
        }
 26
 27⊕
        public void doubleValue() {
 28
            for(int i=0;i<5;i++) {
 29
                 arr[i]=2*(arr[i]);
 30
 31
         }
 32 }
 33
```

```
1
        public class Account {
     2
     3
     4
            int Accho;
     5
            int salary;
    6
            double balance;
    7
           public Account() {
    8⊝
    9
               balance=0;
   18
           public Account(int AccNo, int s, double b) {
   119
   12
               this.AccNo=AccNo;
   13
               this.salary=s;
               this.balance=b;
   14
   15
           public void withdraw(double amnt) {
  16⊕
               balance=balance-amnt;
  17
              System.out.println("WithDraw Amount is"+amnt);
  18
              System.out.println("Remaingin Balance is"+balance);
  19
  28
          public void dispalyc() {
  210
              System.out.println("Balance : "+balance);
  22
              System.out.println("Salary is : "+salary);
  23
              System.out.println("Balance is : "+balance);
  24
  25
  26
 27
 28
 29
     class SavingAcc extends Account{
         double InterestRate;
 31
 32
33⊖
         public SavingAcc() {
34
             InterestRate=4.5;
35
        }
36
37⊖
        public SavingAcc(double balance) {
            super.balance=balance;
38
39
            InterestRate=4.5;
48
41
42⊖
        public void Calculate(int year) {
43
            balance=(balance+((balance*4.5*year)/100));
44
```

Writable

Smart Insert

45:1:863

eclipse - Student/src/Rectangle.java - Eclipse io 2 <u>File Edit Source Refactor Navigate Search Project Run W</u>indow <u>H</u>elp - -■ Task List 🖾 🕽 *Rectangle.java 🔀 J Bank.java D ExeProgram.java Package Explorer 🔀 4 public class Rectangle { 🗸 🔀 Student > A JRE System Library [JavaSE-13] private float length; 4 All Activate.... ₩ STC private float width; Find √ (default package) private float area; > D Bank,java private float peri; > D ExeProgram.java > D Rectangle.java public Rectangle() { 99 this.length=0; 10 this.width=0; 11 12 this.area=0; this.length=0; 13 14 15 public Rectangle(float length, float width) { 16⊖ this.length=length; 17 this.width=width; 18 19 20 21⊖ - public void set_Length(float length) { BE Outline ⊠ if(length<=0.0&&length>20.0) { 22 23 24 25 26 27 28 System.out.println("Invalid Entry"); }else → O Rectangle length: float this.length=length; width: float } area: float 29 ÷ 30 31 32 33 34 } public float get_Length() { peri : float return length; o Rectangle() Rectangle(float, float) set_Length(float): void get_Length(): float 35 Rectangle - Student/src

```
*:中の回日:四・日・七〇〇〇・〇・一八
          🖍 area.java 🔀
                                                                                                     @ Javadoc Declaration Console 22 * Debug
          > 😂 overloading > 🎏 src > 🎛 (default package) > 😥 area >
                                                                                                                           ■ × ¾ | B al B (5
               public class area (
                                                                                                     <terminated> ExeProgram (2) [Java Application] C:\Program File
                   double length, width, pi, r;
            2
                                                                                                     area of circle is:107.63668799999998
            30
                   public area() (
                                                                                                     area of rectangle is:2.4396
            4
                        length=1.14;
                                                                                                     area of triangle is:0.0
            5
                        width=2.14:
                        pi=3.14:
            7
                         r=4.14:
            8
            90
                   public void area (double circle) (
           10
                        circle=2*pi*r*r;
           11
                        System.out.println("area of circle is: "+circle);
ationship
           12
           13
          314€
                   public void area (double circle, double rectangle) (
                        rectangle=length*width;
           15
                        System.out.println("area of rectangle is:"+rectangle);
           16
          17
          18
                   public void area (double circle, double rectangle, double triangle) (
         198
ng
                         triangle=(1/2) *pi*r*r;
tem Library
          20
                        System.out.println("area of triangle is:"+ triangle);
           21
ault packag
          23
area.iava
          24
rloading
          25 class ExeProgram(
xeProgram.
                   public static void main(String[]args)
          26-
hape.java
                 area a=new area();
355
                a.area(1);
          28
                a.area(1,2);
          29
                a.area(1,2,3);
          31 1
          32 }
```

```
日客715
                                      public class ExeProgram {
                                   2

→ Pprogram

                                   3
                                   40
                                          public static void main(String args[]) (
  > M JRE System Library [JavaSE-13]
  y ∰ src
                                             D d1=new D();
                                   6

✓ 
☐ (default package)

                                             System.out.println(d1.str);
                                   7
                                   8
                                             System.out.println(d1.n);
      > [] Address.java
                                             System.out.println(d1.1);
                                   9
       >  Array.java
                                   10
                                   11
       > D Bank.java
                                   12
                                          )
       > ( Car.java
                                   13
                                      }
       > DefValue.java
                                      class D[
                                   14
                                   15
                                          String str;
       > Distance.java
                                   16
                                          int n;

▼ ① ExeProgram.java
                                   17
                                          long 1;
         > Q D
                                   18
                                          short s;
                                   19
                                          double d;
         > Q ExeProgram
                                 20
                                          boolean b;
       > D LinkedList.java
                                  21 }
       >  Rectangle.java
       >   Student.java
       > D Student1.java
    > DefValue.java
> Praactical
> Revision
                                  ☐ Console 🏻
                                                                                                                                             <terminated> ExeProgram (2) [Java Application] E:\New folder\Ecllips\jre\bin\javaw.exe (Jan 17, 2022, 7:02:14 PM - 7:02:15 PM)
```

null e e

car (string Public Scannel-input = new scannee (system.in)

System.out.pnintln["Enter direction"); dir (= input. next(); public void more cint pos scame input = new scannel (System in);

System out print In ("Enter position");

pos = input next In();

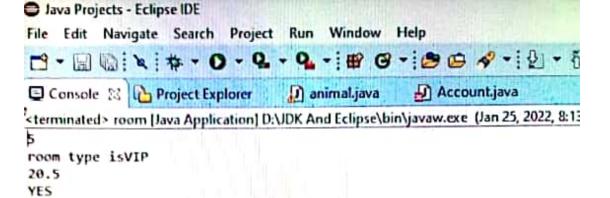
public yord Depose (int deparent) ?
if (dep Amnt 2 = 0) 2)
System out printed Invalled Deposite Amount!)
1 else
1
Balance Arnot = Ballance Arnot + deparent;
1
1
public void natorau(int draws Amout) ?
if (draw Ament 200 11 draw Ament Basance Front))
System-sub-printing invalid vientrau amount. ");
Telse
minimat guyo
Balance Amnt = Balance Amnt - draw Amnt;
1
1
1
Exe program
public class Exeffigram 3
public static vordinain (String [) angs) }
Bank b1 = new Bank (" HBL", 042, "Correct AC", 5
bi. Deposit (2000);
bi. display ();
b1. with Draw (1000)

```
public class Car {
 3
 4
       protected String name;
       //Default constructor
 6
 70
       public Car() {
 8
 9
            name = null;
10
11
       }
12
13
14
       //Argument constructor
15⊕
       public Car(String name) {
16
            this.name = name;
17
18
       }
19
20
21
        //output displaying method
22
        public void displayName() {
23⊖
24
            System.out.println("Name is: "+ name);
25
26
        }
27
28
29
30
```

```
1
 2 public class Execute {
 3
        public static void main(String[] args) {
 40
                                                        //calling default constructor.
            Toyota toyota = new Toyota();
 5
            toyota.display();
 6
 7
 8
            Toyota toyota2 = new Toyota("FastRacing", 2021, "Blue");
 9
10
            //calling argument constructor
11
12
           toyota2.display();
13
14
       }
15
16
17
```

```
public account(int accno,int s,double b){
 Console
  40
         this.accno=accno;
  110
  12
         salary=5;
  13
         balance≈b;
  14
  15
 17⊖ void withdraw(double amnt) {
         System.out.println("withdraw amount is" +amnt);
         System.out.println("remaining balanceis" +balance);
  18
  19
  20
  21
         System.out.println("balance" +balance);
 23⊖ public void di≤playc() (
         System.out.println("salary" +salary);
  24
         System.out.println("accountno=" +accno);
  25
     }
  28
     class SavingAcc extends account{
  29
  30
         double IntrestRate;
  31
  32
         public SavingAcc(){
  33=
             IntrestRate=4.5;
  34
         public void SavingAcc(double balance)[
  35
36-
             super.balance=balance;
  37
             IntrestRate=4.5;
2.38
         public void calculate(int year) {
  39
             balance=(balance+((balance*4.5*year)/100));
  40-
 41
         }
  42
  43
     }
     class MonthlySavingAcc extends SavingAcc
  44
  45
         double averagebalance;
 45
  47
         public MonthlySavingAcc(){
 48-
              averagebalance=100;
 49
@50
         )
             public MonthlySavingAcc(double averagebal){
951=
             averagebalance=averagebal;
 52
 54
         public void Display() {
355-
             System.out.println("accountmo=" +accno);
 55
             System.out.println("salary=" +salary);
 57
             System.out.println("balance-" +balance);
 58
             System.out.println("Intrest Rate =" +IntrestRate);
 59
             System.out.println("average monthly balance" +averagebalance);
 60
 61
     1
0052
                                                          Ι
Ø63
954
 55
```

```
/src/revision/teacher.java - Eclipse IDE
     Navigate Search Project Run Window Help
ector
    🔝 *teacher.java 🛭 🗗 *vehicle.java
 J) room.java
       Console
                    J) house.java
            package revision;
  800
         2
         3
            public class teacher {
            String name;
ary [Jav
            int age;
            double salary;
            String qualification;
            boolean marrigeStatus;
ava
σv
         10= void setmethod(int age,String n,double sal,String qual,boolean MS) {
.java
         11
                 name=n;
        12
                 age=age;
/a
         13
                 salary=sal;
/a
         14
                 qualification=qual;
java
         15
                 marrigeStatus=MS;
java
         16
         17-void display() {
                 System.out.println("name" +name);
         18
                 System.out.println("age" +age);
          19
          20
                 System.out.println("salary" +salary);
          21
                 System.out.println("qualification" +qualification);
                 System.out.println("marrigeStatus" +marrigeStatus);
          22
          23
          24
          25
          26 class student extends teacher{
             String semester="sem";
          28
          29- void displaydata() {
             System.out.println("S.semester" +semester);
          31
            - public static void main(String[]args)
          34
           35
                  student S=new student();
          36
                         S.display();
```



```
"Untitled - Notepad

File Edit Format View Help

String S;

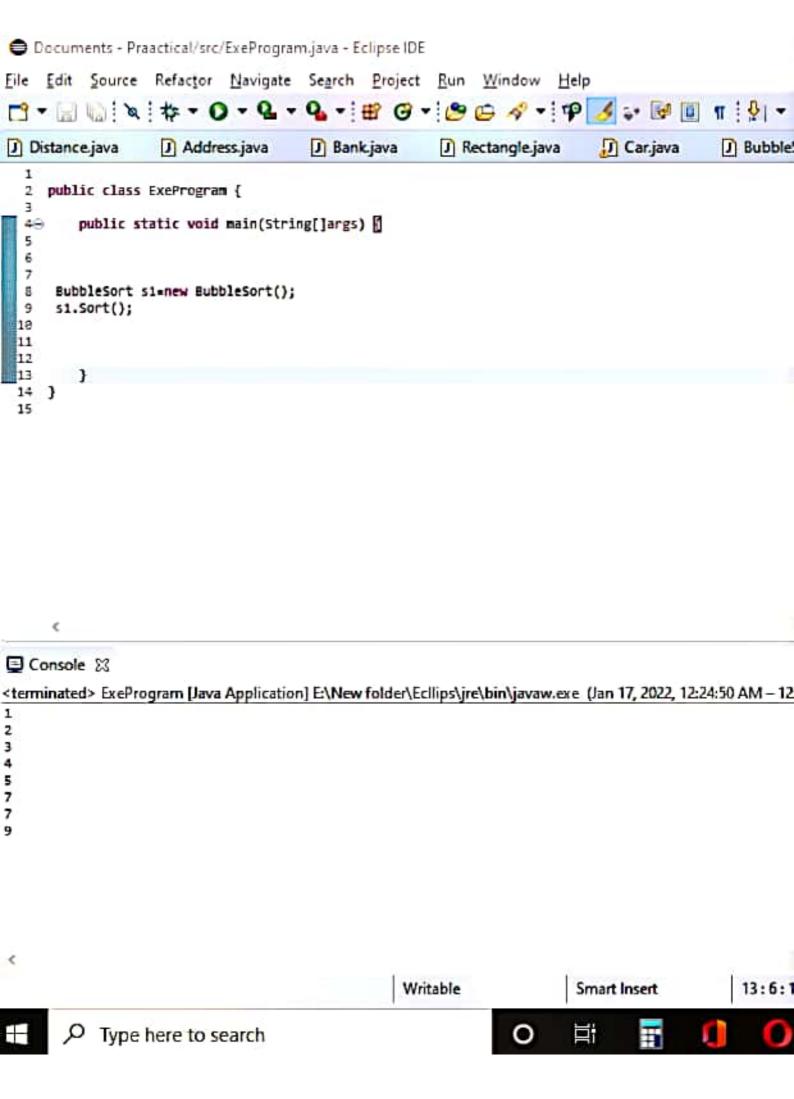
if(machine==true){

S="YES";

}else
{

S="NO";
}
```

System.out.println(S);



```
package bank-account;
import . java . util . Scanner:
          class Bank-Account
 public
          String name, acc-type;
   final
         String d-name;
    final
                     account -num;
     int bank-bal;
    Public_
               Bank-Account ()
       name = "UBaid".
        acc-type = "Saving";
d-name = "Adeel";
        account-num = 3415 976;
        bank-bal - 150000;
       void
             deposite (int amount)
        bank-bal + -amount;
         Shiring study seom
       Void withdraw (int amount)
         bonkbal = amount:
       void Display ()
       System-ord-println ("Account Name is : + name);
      System out point in ( your name is: "+ d-name);
      System out printen ("you bank beauce:"+ bank-bal);
```

Car class Public String names dire;

Public int Pos;

Public (ar()

[Intivalize the vawes]

Scannel input = new scanner (system.in) system.out.println ("Enter name");

name = input.next();

system.out.println ("Enter direction"); dire = (nput · next();

System.out.print In("Enter position");

pos = input nexts nt (); Switch (dire) case 'N': pos = 'E'. > break; case 'E': pos = 's'; break; case's': pos = 'w'; break; lase'w': POS= 'N'; break; Systemoul print la ("Invalid"): break;

```
package inheritence;
    public class account (
 3
         int accno;
  4
         int salary;
  5
         double balance;
  6
  7
         public account(){
  8⊖
             balance=0;
  9
 10
         public account(int accno,int s,double b)(
 11⊕
         this.accno=accno;
 12
         salary=s;
 13
         balance=b;
 14
 15
     void withdraw(double amnt) {
         balance=balance-amnt;
 18
         System.out.println("withdraw amount is" +amnt);
 19
         System.out.println("remaining balanceis" +balance);
 20
 21
 22
     }
 23@ public void displayc() {
         System.out.println("balance" +balance);
 24
         System.out.println("salary" +salary);
 25
         System.out.println("accountno=" +accno);
 26
 27
 26
     }
 29
     class SavingAcc extends account{
 30
         double IntrestRate;
 31
 32
         public SavingAcc(){
 33-
              IntrestRate=4.5;
 34
 35
          public void SavingAcc(double balance){
136-
              super.balance=balance;
 37
              IntrestRate=4.5;
138
 39
          public void calculate(int year) {
 40-
              balance=(balance+((balance*4.5*year)/100));
 41
 42
          }
 43
     }
 44
     class MonthlySavingAcc extends SavingAcc
 45
          double averagebalance;
 46
 47
          public MonthlySavingAcc(){
 48-
               averagebalance=100;
 49
£150
              public MonthlySavingAcc(double averagebal){
Q51-
              averagebalance=averagebal;
         public void Display()
```

Console

```
package P;
   public class Rectangle {
  double length, width, Area, perimeter;
  public Rectangle()
    length=1;
    width=1;
  public Rectangle(double 1, double w)
    this.length=1;
    this.width=w:
 void setlength(double 1)
   if(1>=0.0 && 1<=20.0)
     this.length=1;
   else
    System.out.println("Invalid length value");
void getlength(double 1)
 this.length=1;
void setwidth(double w)
  if(w>=0.0 && w<=20.0)
   this.width=w;
 else
 System.out.println("Invalid value");
void getwidth(double w)
this.width=w;
oid Area()
      %
```



```
•
      System.out.println("Invalid length value");
T
.
15
  void getlength(double 1)
16
   this.length=1;
E
9
  void setwidth(double w)
П
    if(w>=0.0 && w<-20.0)
E
      this.width-w:
n
    else
  System.out.println("Invalid value");
    void getwidth(double w)
    this width=w;
 void Area()
   Area=length*width;
   System.out.println("Area of Rectangle="+Area):
 void perimeter()
 П
   perimeter=2*length+2*width;
   System.out.println("Perimeter of
 Rectangle="+perimeter);
 public static void main(String[]args)
   Rectangle r=new Rectangle (1,2):
   r.setlength(20);
   r.setwidth(20);
   r.Area();
   r.perimeter():
```

Ō	H3 Operator
_	
	Package operator; public class operator
	£ (1022 /2)
	int count:
_	Operator ()
_	lş
-	(ount = 2;
_	
_	void show ()
_	
_	system out println (count);
	void overload()
	S SVEYTOAAL
	(ount ++;
	System.out. print ln (count);
	3
	public Static void main (String args)
_	
_	Operator op
_	Op = new Operator ();
_	cp. show();
_	op. overload();
_	
	}
_	
_	
_	
*.	

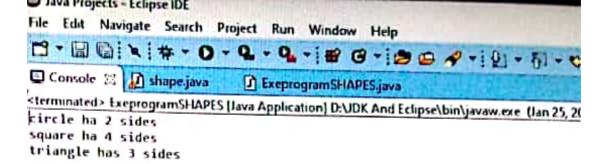
```
package revision;
 1
2
   public class room {
   int roomNo;
   String roomType;
   double roomArea;
   boolean machine;
8
9⊖ void setData (int rno, String rt, double area, boolean AC)
10
11
            roomNo-rno:
12
            roomType=rt;
13
            roomArea-area;
14
            machine-AC;
15
16
17= void Display()
18
   System.out.println(+roomNo);
19
20 System.out.println("room type is"+roomType);
   System.out.println(+roomArea);
21
22
   String S;
   if(machine==true) {
23
24
   S="YES";
25
26
   else
27
        S="NO":
28
29
   System.out.println(5);
38
31
32
33- public static void main(String[]args)
3.4
35
       room room1=new room();
       rooml.setData(5, "VIP",20.5, true);
       room1.Display();
```

Writable

Smart Insert

4:1:4

```
package revision;
   public class display {
 3
4
        public static void main(String[]args)
50
6
 7
            defValue v1-new defValue();
 8
            String name;
 9
            System.out.println(v1.s);
10
            System.out.println(v1.i);
            System.out.println(v1.1);
11
12
            System.out.println(v1.b);
13
            System.out.println(v1.c);
14
            System.out.println(v1.name);
15
            System.out.println(v1.d);
16
17
18
            class defValue{
19
            short s;
20
            int i;
21
            long 1;
22
            boolean b;
23
            char c;
24
            float f;
25
            String name;
26
            double d;
23
```



I

```
package revision;

public class Streq {
    public static void main(String[]args)
    {
        String n1-"A";
        String n2-"A1";

        if(n1--n2) {
            System.out.println("same strings");
        }
        else {
        System.out.println("not same");
        }
    }
}
```

```
1
 2 public class Distance {
    private int feet;
 3
     private float inches;
 6⊖ public Distance() {
 7
         feet=0;
 8
         inches=0;
 9 }
10⊖ public Distance(int feet, float inches) {
11
         this.feet=feet;
12
         this.inches=inches:
13
    }
14
15⊖ public void setFeet(int feet) {
         this.feet=feet;
16
17 }
189 public int getFeet() {
19
         return feet;
28
22@ public void setInches(int inches) {
         this.inches=inches;
23
24 }
25⊖ public float getInches() {
         return inches;
26
27
28
29⊖ public void dist3 sub(Distance d1, Distance d2){
38
         Distance d3=new Distance();
31
         d3.feet=d1.feet-d2.feet;
         d3.inches=d1.inches-d2.inches;
32
33
         if(d3.inches<1) {
34
             d3.inches=d3.inches+12;
             d3.feet=d3.feet-1;
35
36
         System.out.println("D3 feet= "+d3.feet);
37
38
         System.out.println("D3 Inches= "+d3.inches);
39
48
41 }
```

```
1
2 public class Car {
 3
         protected String name;
 5⊖
        public Car() {
            name=null;
 6
 80
        public Car(String Car) {
            this.name=name;
 9
11
12
13
14
15
    class Toyota extends Car{
        private String modelNo;
16
17
        public Toyota() {
18-
            super();
19
20
            modelNo=null;
21
        )
22
        public Toyota(String Name, String modelNo) {
23⊕
24
            super(Name);
            this.modelNo=modelNo;
25
26
        }
27
        public void Display() {
28⊖
            System.out.println("Name : "+name);
29
            System.out.println("Model No : "+modelNo);
36
        }
31
32
33
34
35
```

Public statte void main (String args[])
Bank Account bank = new Bank Account ();
Sank - Account bank - new scanner (systemin); (Scannel input = new scanner (systemin);
Tuesta - To a fat On I Digot P Pill Co
bomb - a mame - mould
System.out.println ("Please enter an amount
1) want to Deposite");
bank-deposit=(input. nextlo ());
hank Display ()
system-out-printer ("Plane enter an amount
U want to withdraw"];
bank withdraw (input next ont ();
bank · Display ();
3
}
· · · · · · · · · · · · · · · · · · ·
QS/
Package localphone;
import, java-util. scanner;
Public class local phone
faction for the factor profile
int Phone-num;
Scanner input = new scanner (system.in);
void setNum()
<u> </u>
system out print on l'place enter your local phone
phone-num = input. next ant ():
7

```
ram/src/ExeProgram Java - Eclipse IDE
elactor Navigate Search Project Run Window Help
                                                                                             DA
 1 ExeProgram java 🖂 🗓 Distance java
                                   [J] Address java
                                                   J Bank.java
                                                                (1) Rectangle java
                                                                                 ( Car.java
      public class ExeProgram (
           public static void main(String args[]) (
   5
                String n1="A";
                String n2="Al";
                if(n1==n2) (
   9
                System.out.println("Same Strings");
  10
  11
                )else (
                    System.out.println("Not Same");
  12
  13
 14
  15
Console !!
```

<terminated • ExeProgram (2) [Java Application] E:\New folder\Ecllips\yre\bin\yavaw.ese (Jan 14, 2022, 10:51:08 PM = 10:51:09 PM)</p>
Not Same

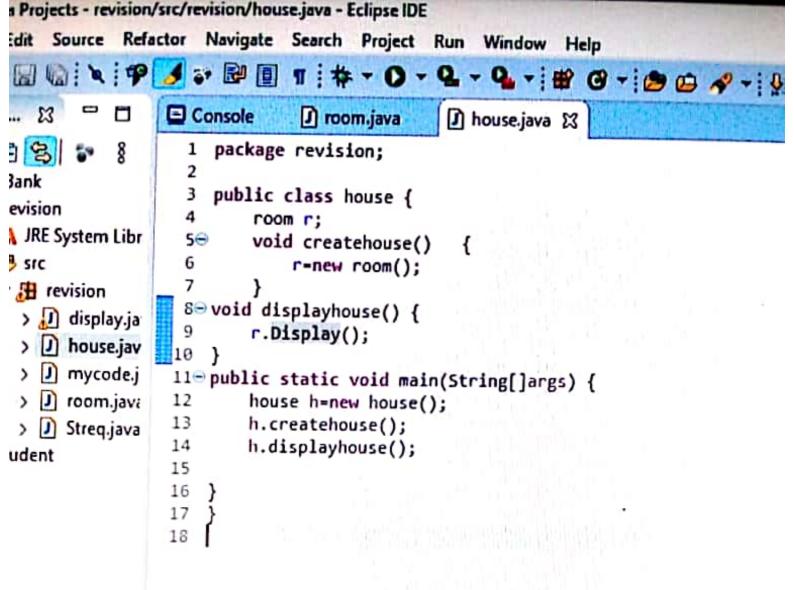
2
Bank class
public class Bank 3
private String Name;
private int AceNo;
private String Actions;
private float Balance Amnt;
public Bank (19
this Name = null;
this. Ace No = 0;
this. Acctype = null;
this-Bouance Amnt=0;
7
public Bank (Aring Name, int AccNo, String AccTipe,
Float Baiance Amont) 3
this Name = Name.
this. Archo= Acc No;
this. Acc Type = Acctype;
this. Balance Amnt = Balance Amnt;
3

Void Display() System.out.println ('your Phone no is:"+ phone-nur void input()	=
system. out	
3 point en ("your Phone no ""	
void imput()	تات
E Trust	<u> </u>
	—.
1 Creating Notes	
1 Creating Natphone as Sub class	
Package local phone; Shining Study. com public class Natphone extends local phone	
Shining Chidu Phone;	
public class	
s Natphone extends localphone	
int ci-code = 0;	;
cc=(0de=0;	
void set ci-code ()	— .
3	—.
System out print en l'plane enter your city cade:	1)-
li-(ode = input-mextint();	
System-out print la ("your co city code is 0"+ci-come	نان
3	
Al a substant	
11. Creating Int Phone as Sub class	
Package localphone;	
Package Cocalphone extends Nat phone	
Ł	
int (o-code;	-
	-

```
Explorer [3]
                  🔟 employee.java 🔣
                       package HeraricalInheritance;
                       public class employee {
s of Inheritance
                    3
E System Library DavaSE
                    4
                       float salary;
                    5
(default package)
                    6
Herancalinheritance
                       class permanentEmployee extends employee {
                    7
) employee.java
                    8
                            double hike=0.5;
torphism
                    9
                   10
٦t
                       class temporaryEmployee extends employee {
                   11
                   12
                            double hike=0.25;
                   13
                   14<sup>e</sup>
                            void display() {
                   15
                                System.out.println("salary of permanentEmployee")
                   16
                                System.out.println("hike for permanentEmployee")
                   17
                                System.out.println("salary of temporaryEmployee")
                   18
                                System.out.println("hike for temporaryEmployee");
                   19
                   20
                   21
                   22
                       class Main(
                   23 public static void main(String[]args) {
                           permanentEmployee p=new permanentEmployee();
                 24
                           temporaryEmployee t=new temporaryEmployee();
                   25
                   26
                            t.display();
                   27
                   28
                   29
                                                                               I
                 Problems in Javadoc 🗓 Declaration 📮 Console 🔀
                 <terminated> display [Java Application] D:\JDK And Eclipse\bin\javaw.exe (Jan 27, 2022, 11:10:28 PM - 1
                 salary of permanentEmployee
                 hike for
                             permanentEmployee
                 salary of temporaryEmployee
                 hike for temporaryEmployee
```

Writable

Smart



T

1.7
void set co-code ()
{ " rater you county code:"].
cystem-out-printer ();
System. out-printen ("Enter you county code:"). Co-code = input. next int (); Co-code = input. next int ();
System out printen ("your city code is 00" + 60-600)
30
· (China avas())
Public Static void main (String args[])
§
Inter = new Inter ();
Natphone nat = new matphone ();
inter-set co-code ();
inter. set (i code();
nat .set Num();
nat. Display ();
}
}
Cal fragam
public class java application public static void main (String args[])
Public class java application
public static void man (string orgs)
5'
car c;
c=new (ax();
(= new (ar(); (- move (pos);
}
3

```
public class ExeProgram {

public static void main(String [] args) {

Distance d1=new Distance(45,18);

Distance d2=new Distance(10,4);

Distance d3=new Distance();

d3.dist3_sub(d1, d2);

d3.dist3_sub(d1, d2);

10

11

12
 }

13
}
```

```
Distance.java

public class ExeProgram {

public static void main(String [] args) {

Person pl=new Person(45,12, "Sargodha", "ZAIN");

pl.display();

}
```

```
public class ExeProgram {

public static void main(String[] args) {
    MonthlySavingAcc obj= new MonthlySavingAcc();
    obj.withdraw(120);
    obj.dispalyc();
    obj.Calculate(3);
    obj.Display();
}

public class ExeProgram {
    MonthlySavingAcc();
    obj.withdraw(120);
    obj.withdraw(120);
    obj.dispalyc();
    obj.Display();
}
```

```
🗓 Employ.java 🖾 🗗 ExeProgram.java
         System.out.println("Enter Employee Number");
11
         this.No=s1.nextInt();
12
13
14⊖ public void show() {
         System.out.println("Name is:"+Name+"\nNumber is:"+No);
15
16
17
18
19 class Manager extends Employ {
        private String title;
20
        private int golfDues;
21
22
        public void setData() {
23⊕
             System.out.println("Enter Manager Title");
24
             this.title=s1.next();
25
             System.out.println("Enter Manager GolfDues");
26
             this.golfDues=s1.nextInt();
27
28
        public void showManagerData() {
29⊖
             System.out.println("Title is:"+title+"\nDues are:"+golfDues);
30
31
32
33 }
34
    class Scientist extends Employ{
35
        private int publications;
36
37
        public void setPub (int pub) {
389
            this.publications=pub;
39
48
        public void showPublication() [
41⊕
            System.out.println("No of Publications are: "+publications);
42
43
44
45 }
46
   class Laborer extends Employ {
47
48 }
49
50
```