Practical Set: 3

Inheritance

Practical 1:

AIM: Write java Program for single level inheritance.

Code:

```
import java.util.*;
class Inheritance_multiply
{
    public static void main(String args[])
     {
      sub sub1 = new sub();
      Scanner sc = new Scanner(System.in);
          System.out.print("Enter Number 1 : ");
            Double a = sc.nextDouble();
          System.out.print("Enter Number 2 : ");
            Double b = sc.nextDouble();
       sub1.setij(a,b);
       sub1.multiply();
      }
}
class inhertmultiply
{
       Double a;
       Double b;
}
class sub extends inhertmultiply
{
       Double c;
       void setij(Double i,Double j)
       {       a=i;
               b=j;
       }
      void multiply()
      {        c=a*b;
               System.out.println("Multiplication of 2 Number : "+c);
      }
}
```

Output:

Inheritance_multiply - Notepad

File Edit Format View Help

```
import java.util.*;
class Inheritance_multiply
{
      public static void main(String args[])
       {
         sub sub1 = new sub();
         Scanner sc = new Scanner(System.in);
              System.out.print("Enter Number 1 : ");
              Double a = sc.nextDouble();
              System.out.print("Enter Number 2 : ");
              Double b = sc.nextDouble();
         sub1.setij(a,b);
         sub1.multiply();
        }
}
class inhertmultiply
{
        Double a;
        Double b;
}
class sub extends inhertmultiply
{
        Double c;
        void setij(Double i,Double j)
        { a=i;
          b=j;
         }
        void multiply()
        {
         c=a*b;
         System.out.println("Multiplication of 2 Number : "+c);
        }
}
```

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```
F:\pu_it_pratical\javaws>javac Inheritance_multiply.java

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 12.555
Enter Number 2 : 1344.111
Multiplication of 2 Number : 16875.313605

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 54.1245
Enter Number 2 : 98.12
Multiplication of 2 Number : 5310.69594

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 25
Enter Number 2 : 25
Multiplication of 2 Number : 625.0

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 65
Enter Number 2 : 65
Multiplication of 2 Number : 4225.0

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 121
Enter Number 2 : 11
Multiplication of 2 Number : 1331.0

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 14
Enter Number 2 : 2
Multiplication of 2 Number : 28.0

F:\pu_it_pratical\javaws>java Inheritance_multiply
Enter Number 1 : 46
Enter Number 2 : 47
Multiplication of 2 Number : 2162.0
```

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Practical Set: 4

Java Keyword

Practical 1:

AIM: Write java program to demonstrate the use of static keyword.

Code:

```
class Student
{
  int rollno;
  String name;
  static String college ="PIET";
  static int count=0;
  static int branchcode=545;
  Student()
  {
   this.rollno =3;
   this.name ="Hemil ";
   count++;
  }
  Student(int r, String n)
  {
   rollno=r;
   name=n;
   count++;
  }
   void display()
   {
    System.out.println(rollno +"  "+ name +"  "+ college +"  "+ branchcode);
    System.out.println("Inserted record no." + count);
   }
}
class staticConstant
{
   public static void main(String args[])
   {
    Student s1 = new Student(3,"Meet");       //count=1
    s1.display();
    Student s2 = new Student(4,"Raj");        //count=2
```

```
        s2.display();
        Student s3 = new Student(5,"Utsav");      //count=3
        s3.display();
        Student s = new Student();
        s.display();
       }
}
```

Output:

staticConstant - Notepad

```
class Student
{  int rollno;
   String name;
   static String college ="PIET";
   static int count=0;
   static int branchcode=545;
   Student()
   { this.rollno =3;
     this.name ="Hemil ";
     count++;
   }
   Student(int r, String n)
   { rollno=r;
     name=n;
     count++;
   }
    void display()
    { System.out.println(rollno +"  "+ name +"  "+ college +"  "+ branchc
      System.out.println("Inserted record no." + count);
    }
}
class staticConstant
{   public static void main(String args[])
   { Student s1 = new Student(3,"Meet");        //count=1
     s1.display();
     Student s2 = new Student(4,"Raj");         //count=2
     s2.display();
     Student s3 = new Student(5,"Utsav");       //count=3
     s3.display();
     Student s = new Student();
     s.display();
    }
}
```

Select C:\Windows\System32\cmd.exe

```
F:\pu_it_pratical\javaws>java staticConstant
3  Meet  PIET  545
Inserted record no.1
4  Raj  PIET  545
Inserted record no.2
5  Utsav  PIET  545
Inserted record no.3
3  Hemil   PIET  545
Inserted record no.4

F:\pu_it_pratical\javaws>
```