

Qu 1 : Operation package program

```
// addition.java
package operation;
public class addition
{
    public void add(int a,int b,double c,double d)
    {
        System.out.println("Addition of integer is::"+ (a+b));
        System.out.println("Addition of float is::"+ (c+d));
    }

    public void subtract(int a,int b,double c,double d)
    {
        System.out.println("Subtraction of integer is::"+ (a-b));
        System.out.println("Subtraction of float is::"+ (c-d));
    }
}

//maximum.java
package operation;
public class maximum
{
    public void max(int a,int b)
    {
        int c;
        System.out.println("Maximum number is::"+ (c = (a >b)?a:b));
    }
}

//arithmetic.java

import operation.*;
import java.io.*;
class arithmetic
{
    public static void main(String args[])
    {
        addition a =new addition();
        a.add(10,20,2.5,3.2);
        a.subtract(20,10,3.5,2.5);
        maximum m= new maximum();
        m.max(50,100);
    }
}
```

Qu2 Inheritance demo program

```
import java.io.*;
import java.util.*;

class vehicle
{
```

```

        void display()
        {
            System.out.println("I am in super class vehicle");
        }
    }

class twowheeler extends vehicle
{
    void display1()
    {
        System.out.println("I am in extended twowheeler class");
    }
}

class indemo
{
    public static void main(String args[])
    {
        twowheeler t = new twowheeler();
        t.display();
        t.display1();
    }
}

```

Qu3 Country Inheritance program

```

import java.io.*;
import java.util.*;
class continent
{
    String cont;
    Scanner sc =new Scanner(System.in);

    void cont_input()
    {
        System.out.println("Enter the continent name");
        cont = sc.next();
    }
}

class country extends continent
{
    String con;
    Scanner sc =new Scanner(System.in);

    void con_input()
    {
        System.out.println("Enter the contry name");
        con = sc.next();
    }
}

class state extends country
{

```

```

        String sta;
        Scanner sc =new Scanner(System.in);

        void sta_input()
        {
            System.out.println("Enter the State name");
            sta = sc.next();
        }

    }

class place extends state
{
    String pla;
    Scanner sc =new Scanner(System.in);

    void pla_input()
    {
        System.out.println("Enter the Place name");
        pla = sc.next();
    }

}

class indemo2 extends place
{
    public static void main(String args[])
    {
        indemo2 p = new indemo2();
        p.cont_input();
        p.con_input();
        p.sta_input();
        p.pla_input();
        System.out.println("Continent name is :: " + p.cont);
        System.out.println("Country name is :: " + p.con);
        System.out.println("State name is :: " + p.sta);
        System.out.println("Place name is :: " + p.pla);
    }
}

```

Qu 4: College and Department inheritance

```

import java.io.*;
import java.util.*;
class college
{
    int cno;
    String cname,cadd;
}

class dept extends college
{
    int dno;
    String dname;
}

```

```

public void accept()
{
    Scanner sc = new Scanner(System.in);
    System.out.println("Enter the college code");
    super.cno=sc.nextInt();
    System.out.println("Enter the college name");
    super.cname=sc.next();
    System.out.println("Enter the college address");
    super.cadd=sc.next();
    System.out.println("Enter the Department code");
    dno=sc.nextInt();
    System.out.println("Enter the department name");
    dname=sc.next();
}

public void display()
{
    System.out.println("College code ::" +super.cno);
    System.out.println("College name::" + super.cname);
    System.out.println("College address::" + super.cadd);
    System.out.println("Department code::" +dno);
    System.out.println("Department name::" +dname);
}

public static void main(String args[])
{
    dept d =new dept();
    d.accept();
    d.display();
}
}

```

Qu 5: Account , Saving account and Account details inheritance program

Qu 6: Vehicle, lightweight and heavyweight

```

import java.io.*;
import java.util.*;
class vehicle
{
    String cname;
    double price;

    public void accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the company name");
        cname = sc.next();
        System.out.println("Enter the vehicle price");
        price = sc.nextDouble();
    }

    public void display()
    {
        System.out.println("Company name is " +cname+ "\n vehicle
price is " +price);
    }
}

```



```

        l[i].accept();
    }
    System.out.println("*****Light Motor Vehicle
Information *****");
    for(i=0;i<n;i++)
        l[i].display();
    break;
    case 2: System.out.println("How many vehicle you
want");

        n = sc.nextInt();
        HeavyMotorVehicle h[] =new HeavyMotorVehicle[n];
        for(i=0;i<n;i++)
        {
            h[i]=new HeavyMotorVehicle();
            h[i].accept();
        }
        System.out.println("*****Heavy Motor
Vehicle Information *****");
        for(i=0;i<n;i++)
            h[i].display();

        break;
    default : System.out.println("Enter proper choice");
    }
}
}

```

Qu 7: Customer , Depositer and borrower

```

import java.io.*;
import java.util.*;
class customer
{
    String name;
    int ph;
}

class depositor extends customer
{
    int acno;
    double balance;
}

class borrower extends depositor
{
    int lno;
    double lamount;

    public void read()
    {
        Scanner sc =new Scanner(System.in);
        System.out.println("Enter the customer name");
        super.name = sc.next();
        System.out.println("Enter the customer phone number");
        super.ph = sc.nextInt();
        System.out.println("Enter the depositer account number");
        super.acno = sc.nextInt();
    }
}

```

```

        System.out.println("Enter the depositer account balance");
        super.balance = sc.nextDouble();
        System.out.println("Enter the borrower loan number");
        lno = sc.nextInt();
        System.out.println("Enter the borrower loan amount");
        lamount = sc.nextDouble();

    }

    public void display()
    {
        System.out.println("Customer name is::" +super.name + "\n
Phone number ::"+super.ph +"\n Account number is::" +super.acno +"\n
Account balance is::"+super.balance + "\n Loan number is::"+lno+"\n Loan
amount is::"+lamount);
    }
}

class cdemo
{
    public static void main(String args[])
    {
        int n,i;
        Scanner sc = new Scanner(System.in);
        System.out.println("How many customer you want");
        n= sc.nextInt();
        borrower b[] = new borrower[n];
        System.out.println("Enter "+n+" Customer information");
        for(i=0;i<n;i++)
        {
            b[i]=new borrower();
            b[i].read();
        }

        System.out.println("*****Customer
information*****");
        for(i=0;i<n;i++)
            b[i].display();
    }
}

```

Qu 8: Employee and manager [getsalary() method overridden]

```

import java.io.*;
import java.util.*;
class employee
{
    double salary;

    employee()
    {
        salary = 35000;
    }

    public double getsalary()
    {
        Scanner sc = new Scanner(System.in);
    }
}

```

```

        double withdraw;
        System.out.println("Enter the salary which employee want to
withdraw ");
        withdraw =sc.nextDouble();
        return (salary - withdraw);
    }
}

class manager extends employee
{
    double traveling,rent;

    manager()
    {
        traveling = 2000;
        rent= 5000;
    }
    public double getsalary()
    {
        return (super.salary + traveling+rent);
    }
}

class edemo
{
    public static void main(String args[])
    {
        employee e = new employee();
        manager m = new manager();
        System.out.println("Employee salary is " + e.salary +
"\nEmployee salary ifter withdraw is" +e.getsalary());
        System.out.println("Manager Salary is"+m.getsalary());

    }
}

```