

Qul : Cricket player information:

```
import java.io.*;
import java.util.*;
class cricket
{
    String name;
    int inn,out,runs,avg;

    cricket()
    {
        name = "Dhoni";
        inn = 80;
        out = 10;
        runs = 5000;
    }

    cricket(String name,int inn,int out,int runs)
    {
        this.name= name;
        this.inn= inn;
        this.out=out;
        this.runs=runs;
    }
    static void avgs(cricket c[])
    {
        for(int i=0;i<c.length;i++)
            c[i].avg = c[i].runs / c[i].inn ;
    }
    static void sort(cricket c[])
    {
        int i,j;
        cricket c1= new cricket();
        for(i=0;i<c.length;i++)
        {
            for(j=i+1;j<c.length;j++)
            {
                if(c[i].avg > c[j].avg)
                {
                    c1 = c[i];
                    c[i]=c[j];
                    c[j]=c1;
                }
            }
        }
    }

    void display()
    {
        System.out.println("Player name is:: "+name+ "\n Player
innings played are" +inn+ " \n Number of times out " +out+"\n Total runs
are " +runs+"\n Batting average is " +this.avg);
    }

    public static void main(String args[])
    {
    }
```

```

        Scanner sc =new Scanner(System.in);

        System.out.println("***** Default
Information*****");
        cricket c1 =new cricket();
        c1.display();

        int n,i;
        String name;
        int inn,out,runs,avg;

        System.out.println("How many player information you
want");

        n = sc.nextInt();
        cricket c[] = new cricket[n];
        for(i =0;i<n;i++)
        {
            System.out.println("Enter the player name");
            name= sc.next();
            System.out.println("Enter the player innings
played");

            inn=sc.nextInt();
            System.out.println("Enter the player number of
times out");

            out=sc.nextInt();
            System.out.println("Enter the players total
runs");

            runs=sc.nextInt();
            c[i]=new cricket(name,inn,out,runs);
        }
        System.out.println("*****Player
Information*****");

        avgs(c);
        for(i =0;i<n;i++)
            c[i].display();

        sort(c);

        System.out.println("*****Player Information after
sorting according to batting avg*****");

        for(i =0;i<n;i++)
            c[i].display();

    }
}

```

Qu 2. Bank class example

```

import java.io.*;
import java.util.*;
class bank
{
    double balance;

```

```

bank()
{
    balance = 0;
}

bank(double inbalance)
{
    balance = inbalance;
}

public void deposit(double amount)
{
    balance = balance + amount;
}

public void withdraw(double amount)
{
    balance = balance - amount;
}

public double getbalance()
{
    return balance;
}

public static void main(String args[])
{
    bank b=new bank(1000);
    b.withdraw(250);
    System.out.println("After the withdraw balance is::"
+b.balance);
    b.deposit(650);
    System.out.println("After the deposit balance is::"
+b.balance);
    System.out.println("After the all the transction balance
is::" +b.getbalance());
}
}

```

Qu 3 Clock class example

```

import java.io.*;
import java.util.*;
class clock
{
    int h,m,s;

    clock()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the hours");
        h = sc.nextInt();
        System.out.println("Enter the mins");
        m = sc.nextInt();
        System.out.println("Enter the secs");
        s = sc.nextInt();
    }
}

```

```

    }

    void isTimevalid()
    {
        if(h>=0 && h<=24 && m>=0 && m<=60 && s>=0 && m<=60)
            System.out.println("Time is Valid");
        else
            System.out.println("Time is not Valid");
    }

    void setTime()
    {
        if(h < 12)
            System.out.println(" Time is:: "+h+": "+m+": "+s+
"AM");
        else
        {
            h=h-12;
            System.out.println(" Time is:: "+h+": "+m+": "+s+
"PM");
        }
    }

    public static void main(String args[])
    {
        clock c = new clock();
        c.isTimevalid();
        c.setTime();
    }
}

```

Qu 4 package demo program

step 1: create a folder mypack (mkdir mypack)

step 2 : create java file demo.java inside the folder mypack (vim demo.java)

```

package mypack;
public class demo
{

    public void display()
    {
        System.out.println(" I am in package mypack");
    }

}

```

step 3: compile the above file (javac demo.java)

step 4 : create the main file outside the folder "mypack" which will access that package. (vim pdemo.java)

```

import mypack.*;
import java.io.*;
public class pdemo
{
    public static void main(String args[])

```

```

        {
            demo d=new demo();
            d.display();
        }
    }
}

```

Step 5: compile the file (javac pdemo.java)

Step 6: Run the file (java pdemo)

Qu 5 Student result display package program

```

package SY;
import java.util.*;
public class syclass
{
    public int ct,mt,et;

    public void getdata()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the marks of computer out off
100");
        ct = sc.nextInt();
        System.out.println("Enter the marks of maths out off
100");
        mt = sc.nextInt();
        System.out.println("Enter the marks of electronics out
off 100");
        et = sc.nextInt();
    }
}

```

```

package TY;
import java.util.*;
public class tyclass
{
    public int th,prac;

    public void getdata()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the marks of theory out off
500");
        th = sc.nextInt();
        System.out.println("Enter the marks of practical out off
500");
        prac = sc.nextInt();
    }
}

```

```

import SY.*;
import TY.*;
import java.util.*;
class student
{
    int rno,syt,tyt,gt;
    String name,grade;
    float per;

    public void getdata()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the roll number");
        rno = sc.nextInt();
        System.out.println("Enter the name of student");
        name = sc.next();
    }
}
class studentinfo
{
    public static void main(String args[])
    {
        Scanner sc = new Scanner(System.in);
        int i,n;

        System.out.println("How many student you want");
        n=sc .nextInt();

        student si[] = new student[n];
        syclass s[] =new syclass[n];
        tyclass t[]= new tyclass[n];

        System.out.println("Enter " +n+ "records");

        for(i=0;i<n;i++)
        {
            si[i]=new student();
            s[i]=new syclass();
            t[i]= new tyclass();

            si[i].getdata();
            s[i].getdata();
            t[i].getdata();

            si[i].syt=s[i].ct + s[i].mt + s[i].et;
            si[i].tyt = t[i].th + t[i].prac;

            si[i].gt = si[i].syt + si[i].tyt;

            si[i].per = si[i].gt / 13;

            if(si[i].per >= 70)
                si[i].grade="A";

            else if(si[i].per < 70 && si[i].per >=60 )

```

```

        si[i].grade="B";

        else if(si[i].per < 60 && si[i].per >=50)
            si[i].grade="C";

        else if(si[i].per < 50 && si[i].per >=40)
            si[i].grade="PASS";
        else
            si[i].grade = "Fail";
    }

    System.out.println("*****Student
Information*****");
    System.out.println("Roll number \t Name \t SY total \t TY
total \t Grand total \t Percenatge \t Grade");
    for(i=0;i<n; i++)
        System.out.println(si[i].rno + "\t" + si[i].name +"\t" +
si[i].syt + "\t" + si[i].tyt +"\t" +si[i].gt +"\t" +si[i].per + "\t" +
si[i].grade);
    }
}

```

Qu 6 Student Package program

```

package student1;
import java.io.*;
import java.util.*;
public class studentinformation
{
    public int rno;
    public String Class,name;
    public double per;

    public studentinformation(int rno,String name,String Class,double
per)
    {
        this.rno =rno;
        this.name =name;
        this.Class = Class;
        this.per = per;
    }
    public void display()
    {
        System.out.println(rno+"\t"+name+"\t"+Class+"\t"+per);
    }
}

```

```

import student1.*;
import java.io.*;
import java.util.*;
public class studentper
{
    public static double percentage(int total)
    {

```

```

        return (total/5);
    }

    public static void main(String args[])
    {
        int rno,n,total,i,j;
        String Class,name;
        double per;
        Scanner sc =new Scanner(System.in);
        int m[]=new int[5];

        System.out.println("How many student you want");
        n = sc.nextInt();

        studentinformation s[]=new studentinformation[n];

        for(i=0;i<n;i++)
        {
            total=0;
            System.out.println("Enter rno");
            rno=sc.nextInt();
            System.out.println("Enter student name");
            name=sc.next();
            System.out.println("Enter the Class");
            Class = sc.next();
            System.out.println("Enter marks of five
subject");

            for(j=0;j<5;j++)
            {

                m[i]=sc.nextInt();
                total = total + m[i];

            }

            per = percentage(total);

            s[i]=new studentinformation(rno,name,Class,per);
        }
        System.out.println("***** Student
onformation*****");
        System.out.println("Rollno--Name--Class--Percentage ");
        for(i=0; i<n;i++)
            s[i].display();
    }
}

```


