

JAVA_Packages

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CODE :

For package

```
package Divyaspacage;           //package name

import java.util.Scanner;

//package class
public class MyPackage
{
    Scanner sc=new Scanner(System.in);

    //function taking student details
    public void take_info()
    {
        System.out.println("Enter the name:");
        sc.nextLine();
        String name= sc.nextLine();
        System.out.println("Enter the roll no:");
        int roll_no=sc.nextInt();
    }

    //calculating total
    public double total(double a[],int n)
    {
        double sum=0;
        for(int i=0;i<n;i++)
        {
            sum=sum+a[i];
        }
        System.out.println("Total score is "+sum);
        return sum;
    }

    //Printing result in percentage and class
    public void final_result(int n,double total)
    {
        double per=(total/n);    //calculating percentage marks
        System.out.println("Student has scored "+per+" %");
        if(per>=40)
        {
            if(per<=100 && per>=85)
            {
                System.out.println("Congratulations !! You have got
distinction with "+per+" %");
            }
            else if(per<85 && per>75)
            {

```

```
        System.out.println("You have got FIRST CLASS with "+per
+" %");
    }
    else if(per<75 && per>50)
    {
        System.out.println("You have got SECOND CLASS with
"+per +" %");
    }
    else
    {
        System.out.println("You have got THIRD CLASS with "+per
+" %");
    }
    System.out.println("\n\n");
}
else
    System.out.println("Student is failed");
}
}
```

FOR USING PACKAGE IN STUDENTS DATA MANIPULATION

CODE:

```
package Newpack; //package of this file
import Divyaspacage.*; //importing package we want to use

import java.util.Scanner;

public class usingpackage
{
    public static void main(String [] args)
    {
        Scanner sc=new Scanner(System.in);
        MyPackage pack=new MyPackage(); //instatiation

        System.out.println("-----WELCOME TO ANNUAL REPORT CARD---
        -----");

        System.out.println("Enter the number of students:");
        int stud=sc.nextInt();

        for(int j=0;j<stud;j++)
        {
            pack.take_info();

            System.out.println("Enter the number of subjects:");
            int n=sc.nextInt();

            double[] arr=new double[n];
            System.out.println("Enter the marks in all 5 subjects:");
            for(int i=0;i<n;i++)
            {
                System.out.print("Marks in "+(i+1)+" th subject:");
                arr[i]=sc.nextDouble();
            }

            double total=pack.total(arr, n);

            pack.final_result(n, total);
        }
    }
}
```

Enter the name:

Gauri

Enter the roll no:

234

Enter the number of subjects:

5

Enter the marks in all 5 subjects:

Marks in 1 th subject:96

Marks in 2 th subject:89

Marks in 3 th subject:90

Marks in 4 th subject:96

Marks in 5 th subject:100

Total score is 471.0

Student has scored 94.2 %

Congratulations !! You have got distinction with 94.2 %

Enter the name:

Xyz

Enter the roll no:

56

Enter the number of subjects:

5

Enter the marks in all 5 subjects:

Marks in 1 th subject:35

Marks in 2 th subject:34

Marks in 3 th subject:39

Marks in 4 th subject:37

Marks in 5 th subject:36

Total score is 181.0

Student has scored 36.2 %

Student is failed

usingpackage (1) [Java Application] C:\Program Files\Java\jdk-14.0.1\bin\javaw.exe (Nov 1, 2020, .

-----WELCOME TO ANNUAL REPORT CARD-----

Enter the number of students:

4

Enter the name:

Divya

Enter the roll no:

116

Enter the number of subjects:

5

Enter the marks in all 5 subjects:

Marks in 1 th subject:100

Marks in 2 th subject:89

Marks in 3 th subject:78

Marks in 4 th subject:65

Marks in 5 th subject:90

Total score is 422.0

Student has scored 84.4 %

You have got FIRST CLASS with 84.4 %

Enter the name:

Namrata

Enter the roll no:

466

Enter the number of subjects:

5

Enter the marks in all 5 subjects:

Marks in 1 th subject:56

Marks in 2 th subject:65

Marks in 3 th subject:75

Marks in 4 th subject:45

Marks in 5 th subject:36

Total score is 277.0

Student has scored 55.4 %

You have got SECOND CLASS with 55.4 %