

```

1 package lab4;
2
3 import java.util.Scanner;
4
5 public class Multiplication {
6
7     public static void displayMul(int n) {
8         for(int i=1;i<=12;i++) {
9             System.out.println(n + "*" + i + "=" + n*i);
10        }
11    }
12
13    public static void main(String[] args) {
14        Scanner sc = new Scanner(System.in);
15        int mu ;
16        char process = 'm' ;
17        while (process == 'm') {
18            System.out.print("Number [2 to 12] : ");
19            mu = sc.nextInt();
20            while (mu > 12 || mu < 2) {
21                System.out.println("Invalid data, please try again");
22                System.out.print("Number [2 to 12] : ");
23                mu = sc.nextInt();
24            }
25            displayMul(mu);
26            System.out.print("Do you want to continue [y/n] :");
27            process = sc.next().charAt(0);
28        }
29        System.out.print("Byr Bue???");
30    }
31 }
32
33 }
34
35

```

```

<terminated> Multiplication (1) [Java Applicatio
Number [2 to 12] : 20
Invalid data, please try again
Number [2 to 12] : 12
12*1=12
12*2=24
12*3=36
12*4=48
12*5=60
12*6=72
12*7=84
12*8=96
12*9=108
12*10=120
12*11=132
12*12=144
Do you want to continue [y/n] :n
Byr Bue???

```

```

5 public class MethodLoopQueenContest {
6     public static double Foot2(int foot,int inch) {
7         double cm;
8         cm = (foot*12)+ inch;
9         cm = cm * 2.54;
10        return cm ;
11    }
12
13    public static void main(String[] args) {
14        Scanner sc = new Scanner(System.in);
15        char ch,yn = 'm';
16        double sum = 0,max = 0;
17        int tall = 0, i = 0 ,f,n,cm;
18        do {
19            i = i + 1;
20            System.out.print("No. "+i+"Enter height : ");
21            ch = sc.next().charAt(0);
22            if (ch == 'm') {
23                f = sc.nextInt();
24                n = sc.nextInt();
25                sum = Foot2(f,n);
26            }
27            else if (ch == 'c') {
28                cm = sc.nextInt();
29                sum = cm;
30            }
31            else {
32                System.out.println("Error");
33            }
34            if (sum > max) {
35                max = sum;
36                tall = i;
37            }
38            System.out.println("No." + i + " is " + sum + " cm.");
39            System.out.print("Do you want to continue [y/n] : ");
40            yn = sc.next().charAt(0);
41        }while(yn == 'm');
42        System.out.println("No. " + tall + " is tallest");
43        System.out.println("Bye Bye !!!");

```

Console 31



<terminated> MethodLoopQueenContest (Java

No. 1 Enter height:f 5.4

No.1 is 162.56cm.

Do you want to continue [y/n]:y

No. 2 Enter height:c 175

No.2 is 175.0cm.

Do you want to continue [y/n]:n

No. 2 is tallest

Bye Bye !!!

Console

<terminated> MethodLoopQueenContest [Java App

No. 1 Enter height:c 175

No.1 is 175.0cm.

Do you want to continue [y/n]:y

No. 2 Enter height:f 5 4

No.2 is 162.56cm.

Do you want to continue [y/n]:y

No. 3 Enter height:c 165

No.3 is 165.0cm.

Do you want to continue [y/n]:n

No. 1 is tallest

Bye Bye !!!

```
1 package lab4;
2
3 import java.util.Scanner;
4
5 public class SumAToB {
6
7     public static int sumTob(int n1 , int n2) {
8         int sum = 0 , i;
9         for(i = n1; i <= n2; i++) {
10             if(i % 2 == 0) {
11                 sum = sum + 1;
12             }
13         }
14         return sum;
15     }
16     public static void main(String[] args) {
17         Scanner sc = new Scanner(System.in);
18         int n , i, n1, n2, sum;
19         System.out.print("Enter no of loop : ");
20         n = sc.nextInt();
21
22         for(i = 0; i < n; i++) {
23             System.out.print("Start Number : ");
24             n1 = sc.nextInt();
25             System.out.print("End Number : ");
26             n2 = sc.nextInt();
27             sum = sumTob(n1,n2);
28             System.out.println("summary is " + sum);
29         }
30
31     }
32
33 }
```

Console

<terminated> SumAToB [Java Application] C:\e

Enter no of loop : 2

Start Number : 20

End Number : 40

Summary is 330

Start Number : 11

End Number : 35

Summary is 276

```

8      char gr ;
9      if(n >= 80) gr = 'A';
10     else if (n >= 70) gr = 'B';
11     else if (n >= 60) gr = 'C';
12     else if (n >= 50) gr = 'D';
13     else gr = 'B';
14     return gr ;
15 }
16
17 public static void main(String[] args) {
18     Scanner sc = new Scanner(System.in);
19     double gpa = 0, unit, sumunit = 0;
20     char gr ;
21     int n , num , score , grad;
22     System.out.print("Enter number of subject : ");
23     num = sc.nextInt();
24     for (int i = 1; i <= num; i++) {
25         System.out.print("Enter Score of subject : ");
26         score = sc.nextInt();
27         System.out.print("Enter course unit : ");
28         unit = sc.nextDouble();
29         gr = grading(score);
30         System.out.println("Grade : " + gr);
31         if(gr == 'A') grad = 4;
32         else if (gr == 'B') grad = 3;
33         else if (gr == 'C') grad = 2;
34         else if (gr == 'D') grad = 1;
35         else grad = 0;
36         sumunit = sumunit + unit;
37         gpa = gpa + (grad*unit);
38     }
39     gpa = gpa/sumunit;
40     System.out.printf("GPA : %.2f", gpa);
41
42 }
43
44 }
45

```

Console 31

<terminated> MethodCalGPA [Java Application]

Enter number of subject : 5

Enter Score of subject 1: 98

Enter course unit : 1

Grade : A

Enter Score of subject 2: 72

Enter course unit : 0.5

Grade : B

Enter Score of subject 3: 65

Enter course unit : 1

Grade : C

Enter Score of subject 4: 51

Enter course unit : 0.5

Grade : D

Enter Score of subject 5: 49

Enter course unit : 1

Grade : F

GPA : 2.00



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<terminated> MethodCalcGPA [Java Application] C

Enter number of subject : 3

Enter Score of subject 1: 48

Enter course unit : 1

Grade : F

Enter Score of subject 2: 54

Enter course unit : 0.5

Grade : D

Enter Score of subject 3: 58

Enter course unit : 0.5

Grade : D

GPA : 0.50

```

1 package lab4;
2
3 import java.util.Scanner;
4
5 public class MethodLoopPassOrFail {
6
7     public static boolean PassOrFail(int s1,int s2,int s3) {
8         if(s1 > 50 && s2 > 50 && s3 > 50) return true ;
9         else return false ;
10    }
11
12    public static char getgrade(double avg) {
13        if (avg >= 86) return 'A';
14        else if (avg >= 66) return 'B';
15        else return 'c';
16    }
17    public static void main(String[] args) {
18        Scanner sc = new Scanner(System.in);
19        int n1, n2, n3;
20        double mean ;
21        char gr = 'm';
22
23        while (gr == 'm') {
24            System.out.print("Enter Scorse 1 (1-100) : ");
25            n1 = sc.nextInt();
26            System.out.print("Enter Scorse 2 (1-100) : ");
27            n2 = sc.nextInt();
28            System.out.print("Enter Scorse 3 (1-100) : ");
29            n3 = sc.nextInt();
30            if (PassOrFail( n1, n2, n3)) {
31                mean = (n1+n2+n3) /3;
32                System.out.println("Mean = " +mean);
33                System.out.println("Grad = " + getgrade(mean));
34            }
35        }
36
37    }
38 }

```

MethodLoopPassOrFail [Java Applicatio

```

Enter Scorse 1 (1-100) : 80
Enter Scorse 2 (1-100) : 60
Enter Scorse 3 (1-100) : 70
Mean = 70.0
Grad = B
Enter Scorse 1 (1-100) :

```