

```

1 |
2 import java.util.*;
3
4 class Multiplication{
5
6 static int number;
7
8
9 public void multiply() {
10
11     for(int i=1; i<=10;i++) {
12         System.out.println(number + " x " + i + " = "+ (number*i));
13     }
14 }
15
16 public static void main(String arg[]) {
17     Scanner c = new Scanner(System.in);
18     System.out.println("Enter the Number to find its Multiplication Table: ");
19     number=c.nextInt();
20     Multiplication obj = new Multiplication();
21     obj.multiply();
22 }
23 }

```

```

1 import java.util.*;
2
3 class Main{
4
5 static double radius = 25.2;
6 static double area=0;
7 static double perimeter=0;
8
9 public void area_of_circle(){
10
11     area = Math.PI*(radius*radius);
12 }
13
14 public void perimeter_of_circle(){
15     perimeter = 2*(Math.PI*radius);
16 }
17
18 public static void main(String args[]){
19     Main object = new Main();
20     object.area_of_circle();
21     object.perimeter_of_circle();
22     System.out.println("Area of the circle is :"+ area);
23     System.out.println("Perimeter of the circle is :"+ perimeter);
24 }
25 }

```

```

5 static double radius = 25.2;
Area of the circle is :1995.036998735662
Perimeter of the circle is :158.33626974092556

...Program finished with exit code 0
Press ENTER to exit console.

```

```

/** BMI Program */
import java.util.*;

class BMI{
    static int pounds;
    static int inches;
    static double bmi;

    public static void main(String args[]){
        Scanner c = new Scanner(System.in);
        System.out.println("Weight in pounds: ");
        pounds = c.nextInt();
        System.out.println("height in inches: ");
        inches = c.nextInt();

        bmi = (703*pounds)/(inches*inches);
        System.out.println("BMI for the entered values: " + bmi);
    }
}

```

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C:\Users\shriv>cd C:\Java\Tasks

C:\Java\Tasks>javac BMI.java

C:\Java\Tasks>java BMI

Weight in pounds:

452

height in inches:

72

BMI for the entered values: 61.0

C:\Java\Tasks>

```

1- /** conversion of minutes into years and days */
2-
3- import java.util.*;
4-
5- class Main{
6-
7-     static int minutes;
8-     static int years;
9-     static int days;
10-    static int remaining_minutes;
11-
12-    public static void main(String args[]){
13-        Scanner c = new Scanner(System.in);
14-
15-        minutes = c.nextInt();
16-
17-        years = minutes % 525600;
18-        days = minutes / 1440;
19-        remaining_minutes = days % 525600;
20-
21-        System.out.println("conversion of entered minutes "+ years + " years " + remaining_minutes +" days ");
22-    }
23- }
24- }

```

input

525600

conversion of entered minutes 0 years 365 days

...Program finished with exit code 0

Press ENTER to exit console.

```
1- /** Digit separation program */
2-
3- import java.util.*;
4-
5- class Main{
6-
7-     static int number;
8-     static int remainder;
9-
10-     public static void main(String args[]){
11-         System.out.println("Enter the integer value: ");
12-         Scanner c = new Scanner(System.in);
13-         number=c.nextInt();
14-
15-         while(number!=0){
16-             remainder=number%10;
17-             number = number / 10;
18-
19-             System.out.print(" "+ remainder + " ");
20-
21-         }
22-     }
23- }
24- }
```

Enter the integer value:

123

3 2 1

...Program finished with exit code 0

Press ENTER to exit console.

```

1  /**/ Displaying distance in km and miles */
2
3  import java.util.*;
4
5  class Main{
6
7      static int distance;
8      static double meters_per_second;
9      static double kilometers_per_hour;
10     static double miles_per_hour;
11
12     static int hours;
13     static int minutes;
14     static int seconds;
15
16     static int total_seconds;
17
18     public static void main(String args[]){
19
20         System.out.println("Enter the distance: ");
21         Scanner c = new Scanner(System.in);
22         distance = c.nextInt();
23
24
25         System.out.println("Enter the time: ");
26
27         hours = c.nextInt();
28         minutes = c.nextInt();
29         seconds = c.nextInt();
30
31         total_seconds = (hours*3600) + (minutes*60) + seconds;
32

```

```

33         meters_per_second = distance/seconds;
34         kilometers_per_hour = ((distance / 1000.0) / (total_seconds/3600.0));
35         miles_per_hour = (distance / 1609.0) / (total_seconds/3600.0);
36
37         System.out.println("meters per second: " + meters_per_second);
38         System.out.println("kilometers per hour: " + kilometers_per_hour);
39         System.out.println("miles per hour: " + miles_per_hour);
40
41
42
43
44     }
45 }

```

```

15     static int total_seconds;
16

```

input

```

Enter the distance:
55
Enter the time:
3
53
36
meters per second: 1.0
kilometers per hour: 0.014126712328767123
miles per hour: 0.008779808781085844

...Program finished with exit code 0
Press ENTER to exit console.

```

```

1  /** Exor swapping */
2
3
4  import java.util.*;
5
6  class Main{
7
8      static int a;
9      static int b;
10
11  public static void main(String args[]){
12      Scanner c = new Scanner(System.in);
13      System.out.println(" Enter number 1 value: ");
14      a = c.nextInt();
15      System.out.println(" Enter number 2 value: ");
16      b = c.nextInt();
17
18
19      a = a ^ b;
20      b = a ^ b;
21      a = a ^ b;
22
23      System.out.println("a vlaue is: "+ a);
24      System.out.println("b value is: "+ b);
25
26  }
27  }
28

```

```

1  /** Exor swapping */
2
3
4  import java.util.*;
5

```

input

```

Enter number 1 value:
5
Enter number 2 value:
10
a vlaue is: 10
b value is: 5

```

```

...Program finished with exit code 0
Press ENTER to exit console.

```

```
1 - /** Fahrenheit to celsius conversion */
2
3 - import java.util.*;
4
5 - class Main{
6 |
7   static double fahrenheit;
8   static double celsius;
9
10 - public static void main(String args[]){
11   Scanner c = new Scanner(System.in);
12   fahrenheit = c.nextDouble();
13
14   //°C = [(°F-32)×5]/9
15
16   celsius = ((fahrenheit-32)*5)/9;
17
18   System.out.println(celsius);
19 }
20 }
21
22
23
24
25
26
```

input

```
56
13.333333333333334
```

```
...Program finished with exit code 0
Press ENTER to exit console.□
```

```
1  /** formula */
2
3  class Main{
4      static int result_1;
5      static int result_2;
6      static int result_3;
7      static int result_4;
8
9      public static void main(String args[]){
10
11          result_1 = -5 +( 8 * 6 );
12          result_2 = (55 + 9) % 9 ;
13          result_3 = 20 + ((-3 * 5) / 8 );
14          result_4 = 5 + 15 / 3 * 2 - 8 % 3;
15          System.out.println(result_1);
16          System.out.println(result_2);
17          System.out.println(result_3);
18          System.out.println(result_4);
19
20
21      }
22  }
23
24
25
26
```



```
43
1
19
13
```

...Program finished with exit code 0

```

1  /** instanceof check */
2
3  import java.util.*;
4
5  class Main{
6      static String str = null;
7      static String demo_object = null;
8      static String s = "heyhiETS";
9
10     public static void main(String args[]){
11
12         System.out.println(" str is a instance of string "+(str instanceof String));
13         System.out.println(" demoObject is a instance of string "+(demo_object instanceof String));
14         System.out.println(" str is a instance of string "+(s instanceof String));
15
16     }
17
18 }
19
20
21
22
23
24
25
26

```



input

```

str is a instance of string false
demoObject is a instance of string false
str is a instance of string true

```

...Program finished with exit code 0

Press ENTER to exit console


```

1 import java.util.*;
2
3 class Main{
4
5     static int side_ab;
6     static int side_ac;
7     static int side_bc;
8
9     public static void main(String args[]){
10
11         Scanner c = new Scanner(System.in);
12         System.out.println("Enter the sides of the Triangle: ");
13
14         side_ab = c.nextInt();
15         side_ac = c.nextInt();
16         side_bc = c.nextInt();
17
18
19         if((side_ab==side_ac)|| (side_ab==side_bc)|| (side_ac==side_bc)){
20
21             System.out.println("Triangle is a isoceles triangle");
22
23         }
24         else{
25
26             System.out.println("Triangle is not a isoceles triangle");
27
28         }
29
30     }
31 }
32
33
34

```

```

1 import java.util.*;
2
3 class Main{
4
5     static int side ab;

```

input

```

Enter the sides of the Triangle:
2
3
2
Triangle is a isoceles triangle

...Program finished with exit code 0
Press ENTER to exit console.

```

```

1  /** Mathematical operations Task 1 */
2
3  import java.util.*;
4
5  class Main{
6      static int integer_1;
7      static int integer_2;
8      static int sum;
9      static int difference;
10     static int product;
11     static double average;
12     static int max;
13     static int min;
14
15     public static void main(String args[]){
16         System.out.println("Enter two Integer values: ");
17         Scanner c = new Scanner(System.in);
18         integer_1=c.nextInt();
19         integer_2=c.nextInt();
20
21         sum = integer_1 + integer_2;
22         difference = integer_1 - integer_2;
23         product = integer_1*integer_2;
24         average = sum / 2;
25         max = (integer_1>integer_2)?integer_1:integer_2;
26         min = (integer_1<integer_2)?integer_1:integer_2;
27
28         System.out.println(sum);
29         System.out.println(difference);
30         System.out.println(product);
31         System.out.println(average);
32         System.out.println(max);
33         System.out.println(min);
34     }

```

```

4
5  class Main{

```

input

Enter two Integer values:

5

2

7

3

10

3.0

5

2

...Program finished with exit code 0

Press ENTER to exit console.

```
1- /** conversion of inches into meters */
2
3- import java.util.*;
4
5- class Main{
6
7     static int inches;
8     //inches
9     static double meters;
10
11- public static void main(String args[]){
12
13     Scanner c = new Scanner(System.in);
14     System.out.println(" Enter the inches: ");
15     inches = c.nextInt();
16
17     meters = (inches*0.0254);
18
19     System.out.println(meters);
20
21 }
22
23
24
25
26
```

```
3- import java.util.*;
4
5- class Main{
```

input

Enter the inches:

45

1.143

...Program finished with exit code 0

Press ENTER to exit console.

```

1- /** displaying square cube and fourth power of a number */
2
3- import java.util.*;
4
5- class Main{
6
7     static int number;
8     static int square;
9     static int cube;
10    static int fourth_power;
11
12    public static void main(String args[]){
13
14        Scanner c = new Scanner(System.in);
15
16        System.out.println("Enter the number: ");
17
18        number = c.nextInt();
19
20        square = number*number;
21
22        cube = number*number*number;
23
24        fourth_power = number*number*number*number;
25
26        System.out.println("square value: "+ square);
27
28        System.out.println("cube value: "+ cube);
29
30        System.out.println("fourth_power value: "+ fourth_power);
31
32    }
33 }
34

```

```

5- class Main{

```

input

Enter the number:

2

square value: 4

cube value: 8

fourth_power value: 16

...Program finished with exit code 0

Press ENTER to exit console.

```

1- /** sum of digits in the number */
2
3- import java.util.*;
4
5- class Main{
6
7-     static int number;
8
9-     static int remainder;
10
11     static int sum = 0;
12
13
14- public static void main(String args[]){
15
16     Scanner c = new Scanner(System.in);
17
18     System.out.println("Enter a Integer Value: ");
19
20     number = c.nextInt();
21
22     if((number>0)&&(number<1000)){
23
24         while(number!=0){
25
26             remainder = number % 10;
27             number = number / 10;
28             sum = sum + remainder;
29         }
30
31         System.out.println(sum);
32     }
33 }
34 }

```

```

4
5- class Main{

```

input

```

Enter a Integer Value:
123
6

...Program finished with exit code 0
Press ENTER to exit console.

```

```

1- /** Ternary operator */
2-
3- import java.util.*;
4-
5- class Main{
6-
7- static int number1;
8- static int number2;
9- static String result;
10-
11- public static void main(String args[]){
12-
13- Scanner c = new Scanner(System.in);
14-
15- System.out.println(" Enter the value for number 1: ");
16- number1 = c.nextInt();
17- System.out.println(" Enter the value for number 2: ");
18- number2 = c.nextInt();
19-
20- result = ((number1>number2)? number1 + " is greater" : number2 + " is greater");
21-
22- System.out.println(result);
23- }
24- }
25-

```

5- class Main{

input

Enter the value for number 1:

25

Enter the value for number 2:

54

54 is greater

...Program finished with exit code 0

Press ENTER to exit console.