

## Level1

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### QUESTION.1

```
public class level1 {  
    public static void main(String[] args) {  
        //Write a program to find the age of Harry if the birth year is 2000.  
        Assume the Current Year is 2024  
        int birthyear = 2000;  
        int currentyear = 2025;  
  
        int age = currentyear - birthyear;  
        System.out.println("your age =" +age);  
    }  
}
```

### Output

```
C:\Windows\System32\cmd.e  ×  +  ∨  
Microsoft Windows [Version 10.0.22631.4890]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\HP\Downloads\java challanges and coding questions>javac level1.java  
  
C:\Users\HP\Downloads\java challanges and coding questions>java level1  
your age =25  
  
C:\Users\HP\Downloads\java challanges and coding questions>|
```

### QUESTION 2.

```
public class second {  
    public static void main(String[] args) {  
        //Sam's mark in Maths is 94, Physics is 95 and Chemistry is 96 out of  
        100. Find the average percent mark in PCM  
  
        int math = 94, physics=95, chemistry=96 ;  
    }  
}
```

```

        System.out.println("the average is percent is "+(math
+chemistry+physics)/3 +"%");

    }
}

```

## Output

```

C:\Users\HP\Downloads\java challanges and coding questions>javac second.java

C:\Users\HP\Downloads\java challanges and coding questions>java second
the average is percent is 95%

```

## QUESTION3.

```

public class queation3 {
    public static void main(String[] args) {
//Create a program to convert the distance of 10.8 kilometers to miles.
//float km = 10.8f;

//ystem.out.println("the  miles in 10.8 km is =" +km*1.6);

        float a = 10.6f;
        float total =(float) (a*1.6);
        System.out.println(total);

    }
}

```

## Output

```

C:\Users\HP\Downloads\java challanges and coding questions>javac question3.java

C:\Users\HP\Downloads\java challanges and coding questions>java question3
16.960001

C:\Users\HP\Downloads\java challanges and coding questions>|

```

#### QUESTION 4.

```
public class question4 {
    //Create a program to calculate the profit and loss in number and
    percentage based on the cost price of INR 129 and the selling price of INR
    191.

    public static void main(String[] args) {

        int cost_price = 129;
        int sell_price= 191;
        if (cost_price >= sell_price)
        {
            System.out.println("the loss="+ (cost_price - sell_price));}

        else{
            System.out.println("the profit = "+(sell_price-cost_price));}

        }

    }
```

#### OUTPUT

```
C:\Users\HP\Downloads\java challanges and coding questions>javac question4.java

C:\Users\HP\Downloads\java challanges and coding questions>java question4
the profit = 62

C:\Users\HP\Downloads\java challanges and coding questions>|
```

#### QUESTION 5.

```
public class question5 {
    //Suppose you have to divide 14 pens among 3 students equally.
    // Write a program to find how many pens each student will get if the pens
    must be divided equally.
    // Also, find the remaining non-distributed pens.

    public static void main(String[] args) {
        int pen = 14;
        int student = 3;

        int division = 14/3;
        int remaining = 14%3;
```

```
        System.out.printf("division: %d, remaining :%d\n",division,remaining);
    }
}
```

## OUTPUT

```
C:\Users\HP\Downloads\java challanges and coding questions>javac question5.java

C:\Users\HP\Downloads\java challanges and coding questions>java question5
division: 4, remaining :2

C:\Users\HP\Downloads\java challanges and coding questions>|
```

## QUESTION 6;

```
public class question6 {
    //The University is charging the student a fee of INR 125000 for the
    course. The University is willing to offer a discount of 10%. Write a program
    to find the discounted amount and discounted price the student will pay for
    the course.

    public static void main(String[] args) {
        int total_amount=125000;
        float discount = (total_amount*10)/100f ;
        float amount_to_pay = (float)(total_amount-discount);

        System.out.printf("total discount %f ,total amount paid %f\n",discount,amount_to_pay);
    }
}
```

## OUTPUT

```
C:\Windows\System32\cmd.e X + v
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lenovo\Desktop\Java>javac question6.java

C:\Users\lenovo\Desktop\Java>java question6
total discount 12500.000000,total amount 112500.000000

C:\Users\lenovo\Desktop\Java>|
```

#### QUESTION 7;

```
public class question7 {
    //Write a Program to compute the volume of Earth in km^3 and miles^3

    public static void main(String[] args) {
        int radius = 6378;
        float radius_in_mile= (float) 1.6*radius;

        float volume_in_km = (float) (4*3.14* radius*radius*radius)/3;

        float volume_in_miles =
(float) (4*3.14*(radius_in_mile)*(radius_in_mile)*(radius_in_mile));

        System.out.printf("the volume in km is %.2f    and volume in miles is
%.2f%n ",volume_in_km,volume_in_miles);

    }
}
```

#### OUTPUT

```
C:\Windows\System32\cmd.e  X  +  v
Microsoft Windows [Version 10.0.26100.3037]
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C:\Users\lenovo\Desktop\Java>javac question7.java

C:\Users\lenovo\Desktop\Java>java question7
the volume in km is 814672773120.00 and volume in miles 3336899657728.00
C:\Users\lenovo\Desktop\Java>
```

## QUESTION 8;

```
import java.util.Scanner;

public class question8 {
    //Create a program to convert distance in kilometers to miles.

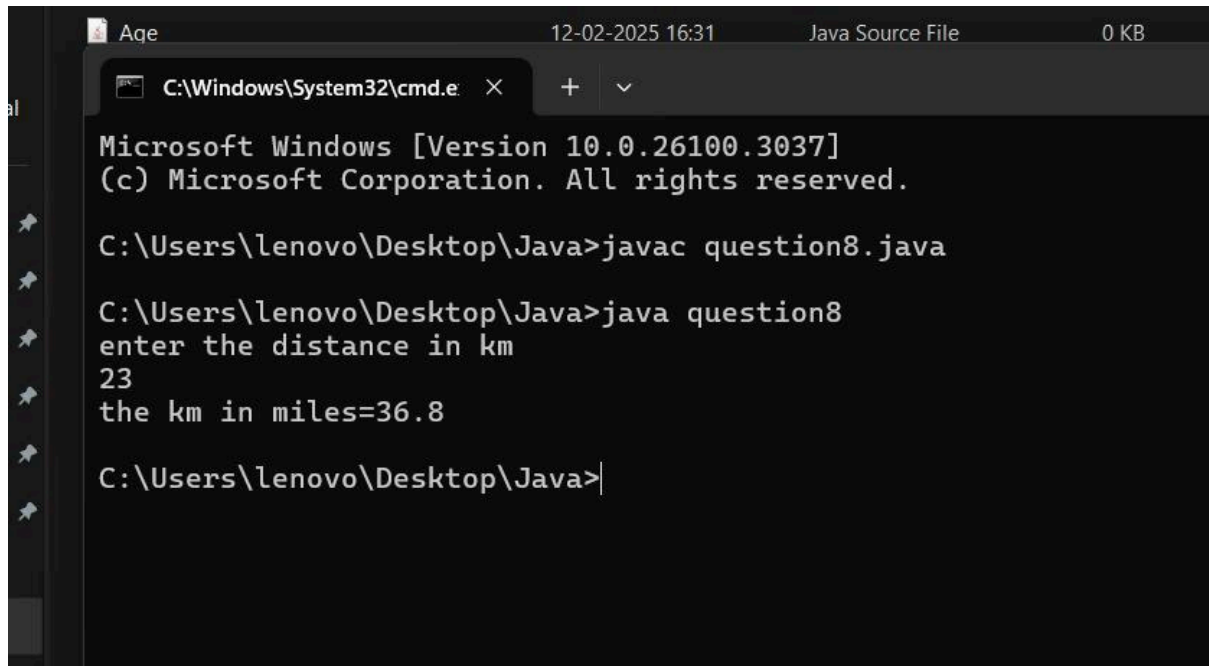
    public static void main(String[] args) {

        Scanner n1 = new Scanner(System.in);
        System.out.println("enter the distance in km");
        int km = n1.nextInt();

        float miles = (float) 1.6*km;
        System.out.println("the km in miles =" +miles );

    }
}
```

## OUTPUT



```
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lenovo\Desktop\Java>javac question8.java

C:\Users\lenovo\Desktop\Java>java question8
enter the distance in km
23
the km in miles=36.8

C:\Users\lenovo\Desktop\Java>|
```

#### QUESTION 9.

```
import java.util.Scanner;

public class question9 {
    //Write a new program similar to the program # 6 but take user input for
    Student Fee and University Discount

    public static void main(String[] args) {

        Scanner n1= new Scanner(System.in);
        System.out.println("enter the student fee");
        int total_amount = n1.nextInt();
        float discount = (total_amount*10)/100f ;
        float amount_to_pay = (float)(total_amount-discount);

        System.out.printf("total discount %f ,total amount paid %f
%n",discount,amount_to_pay);
        n1.close();

    }
}
```

OUTPUT:

```
C:\Windows\System32\cmd.e  X  +  v
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lenovo\Desktop\Java>javac question9.java

C:\Users\lenovo\Desktop\Java>java question9
enter the student fee
125000
total discount 12500.000000,total amount 112500.000000

C:\Users\lenovo\Desktop\Java>
```

## QUESTION 10 .

```
import java.util.Scanner;

public class question10 {
    //Write a program that takes your height in centimeters and converts it
    into feet and inches
    public static void main(String[] args) {

        Scanner n1= new Scanner(System.in);
        System.out.println("enter the height in cm");
        float cm = n1.nextFloat();

        float inch = (float)2.54*cm, feet = (float)12*inch;
        System.out.printf("height in inch =%.2f ,height in feet %.=2f
",inch,feet);
    }
}
```

## OUTPUT



```
C:\Windows\System32\cmd.e  X  +  v
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\lenovo\Desktop\Java>javac question10.java

C:\Users\lenovo\Desktop\Java>java question10
enter the height in cm
184
height in inch =72.44,height in feet =6.04
C:\Users\lenovo\Desktop\Java>
```