

Que-1) Write a java program to calculate the curved surface area of a cube?  
Formula- $6 \times \text{side}^2$

Que-2) write a java program to calculate the total surface area of a cylinder?  
Formula-  $2 \pi r^2 + 2 \pi r h$  (take the pi as 3.14).

Que-3) write a Java program to calculate compound interest for 3 years?  
Formula-  $\text{amount} = \text{principle} \times (1 + \text{rate}/100)^3$

Que-4) write Java Program Convert Fahrenheit To Celsius | Vice Versa  
Formula-  
 $\text{Celsius} = (\text{Fahrenheit} - 32) \times 5/9$ ;  
 $\text{Fahrenheit} = ((9 \times \text{Celsius})/5) + 32$ ;  
Note [ Write two seprate program for converting celsius into Fahrenheit  
and Fahrenheit into celsius ]

Que-5)

```
public class Literals_Integers
{
    public static void main (String args[])
    {
        int decimal_int=1234;
        int octal_int=077;
        int hexadec_int=0x1ff2;
        int binary_int=0b1010101;
        System.out.println("This is a Decimal Literal: "+decimal_int);
        System.out.println("This is an Octal Literal: "+octal_int);
        System.out.println("This is a Hexa Decimal Literal: "+hexadec_int);
        System.out.println("This is a Binary Literal: "+binary_int);
    }
}
```

[What will be the output of the above program]

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Que-6)

```
public class Literals_Float
{
    public static void main (String args[])
    {
        float val_float=1.7732f;
        double val_double=1.7732d;
```

```
float val_exponent=123E4f;
System.out.println("This is a Floating Point Literal"+val_float);
System.out.println("This is a Decimal Literal"+val_double);
System.out.println("This is an Exponential
Literal"+val_exponent);
}
}
```

[What will be the output of the above program]

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Que-7)

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```
public class AutomaticTypeConversion
{
    public static void main (String args[])
    {
        int intValue = 100;
        long longVariable = intValue;
        float floatValue = longVariable;
        System.out.println ("Integer Value is : " + intValue);
        System.out.println ("Float Value is : " + floatValue);
        System.out.println ("Long Value is : " + longVariable);
    }
}
```

[What will be the output of the above program]

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Que-8)

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```
public class ExplicitTypeCasting
{
    public static void main (String[]args)
    {
        double doubleVariable = 100.04;
        long longVariable = (long) doubleVariable;
        int intValue = (int) longVariable;
        System.out.println ("Double Value is : " + doubleVariable);
        System.out.println ("Long Value is : " + longVariable);
        System.out.println ("Integer Value is : " + intValue);
    }
}
```

[What will be the output of the above program]

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Que-9)

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```
class Sample
{
    public static void main(String[] args)
    {
        int a=10;
        float b=4.5f;
        double c=5.2;
        long d=(long)-8.98;
        System.out.println(a);
        System.out.println(b);
        System.out.println(c);
        System.out.println(d);
    }
}
```

[What will be the output of the above program]

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Que-10)

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```
public class Sample {
    public static void main(String[] args) {
        int a=10;
        float b=4.5f;
        double c=5.2;
        long d=378293L;
        long e=(long)-8.98;
        System.out.println(a);
        System.out.println(b);
        System.out.println(c);
        System.out.println(d);
        System.out.println(e);
        Sample.main("java");
    }
}
```

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