Byte: 10

Short: 1000

Int: 100000

Long: 1000000000

Float: 3.14

Double: 3.14159265359

Char: A

Boolean: true

```
public class exp2 {
    public static void main(String[] args) {

        boolean operand1 = true;
        boolean operand2 = false;

        // Logical AND operator (&&)
        boolean resultAND = operand1 && operand2;
        System.out.println("Operand1 && Operand2: " + resultAND);

        // Logical OR operator (||)
        boolean resultOR = operand1 || operand2;
        System.out.println("Operand1 || Operand2: " + resultOR);
    }
}
```

Operand1 && Operand2: false

Operand1 || Operand2: true

//Q3

```
import java.util.*;
public class exp3 {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number to find its factorial: ");
        int number = sc.nextInt();

        long factorial = calculateFactorial(number);

        System.out.println("Factorial of " + number + " is: " +

factorial);

    }

    public static long calculateFactorial(int n) {
        if (n < 0) {
            throw new IllegalArgumentException("Factorial is not defined for negative numbers");
        }
        if (n == 0 || n == 1) {
            return 1;
        }

        long result = 1;
        for (int i = 2; i <= n; i++) {
            result *= i;
        }
        return result;
    }
}</pre>
```

Enter a number to find its factorial:

5

Factorial of 5 is: 120

```
Q4
public class exp4 {
      System.out.println();
1
12
123
1234
12345
Q5
public class exp5 {
          System.out.println();
12345
1234
123
12
1
Q6
public class exp6
      for (int i=0; i<n; i++)
```

\* \*

\* \* \*

Q7

Enter a number to reverse its digits: 1235

Reversed number: 5321

```
import java.util.*;

public class exp8 {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the value of n: ");
        int n = scanner.nextInt();

        double sum = 0;
        for (int i = 0; i <= n; i++) {
            sum += 1 / Math.pow(2, i);
        }

        System.out.println("Sum of the series is: " + sum);
    }
}</pre>
```

Enter the value of n: 5

Sum of the series is: 1.96875

Q9

hello

```
import java.util.*;
public class t1 {
    public static void main(String[] args) {
        int a,b,c,tem,tem2;
        Scanner sc=new Scanner(System.in);
        System.out.println("ENTER A:");
        a=sc.nextInt();
        System.out.println("ENTER B:");
        b=sc.nextInt();
        System.out.println("ENTER C:");
        c=sc.nextInt();
        tem=(a>b)&(a>c)?a:(b>c)?b:c;
        tem2=(a<b)&(a<c)?a:(b>c)?b:c;

        System.out.println("Large number"+tem);
        System.out.println("Small number is:"+tem2);
    }
}
```

ENTER A:

55

**ENTER B:** 

65

ENTER C:

2

Large number65

Small number is:2

```
import java.util.*;
public class Q13 {
    public static void main(String[] args) {
        int a, b, c, tem, tem2;
        Scanner sc = new Scanner(System.in);

        System.out.println("ENTER A:");
        a = sc.nextInt();
        System.out.println("ENTER B:");
        b = sc.nextInt();
        System.out.println("ENTER C:");
        c = sc.nextInt();

        if (a > b && a > c) {
            tem = a;
        } else if (b > c) {
            tem = b;
        } else {
            tem = c;
        }

        if (a < b && a < c) {</pre>
```

```
tem2 = a;
} else if (b < c) {
    tem2 = b;
} else {
    tem2 = c;
}

System.out.println("Large number: " + tem);
System.out.println("Small number: " + tem2);
}
</pre>
```

ENTER A:

55

ENTER B:

65

ENTER C:

2

Large number: 65

Small number: 2



Answer = 81

**GANESH MOROLIYA (A-102)** Enter an Year :: 2024 Specified year is a leap year Q22 public class Q23 { int tmp; for(int i=1;i<=10;i++) { tmp=2\*i;System.out.println(tmp); 2 4 6 8 10 12 14 16 18 20 Q25 public class Q24 {

```
public class Q24 {
    public static void main(String[] args) {
        int num = 12345, sum = 0;
        while(num!=0) {
            sum += num % 10;
                num = num / 10;
        }
        System.out.println ("Sum of digits : " + sum);
    }
}
```

Sum of digits: 15

```
public class Q25 {
    public static void main(String[] args) {
        String string = "RCOEM";
```

```
//Stores the reverse of given string
String reversedStr = "";

//Iterate through the string from last and add each character to
variable reversedStr
for(int i = string.length()-1; i >= 0; i--){
    reversedStr = reversedStr + string.charAt(i);
}

System.out.println("Original string: " + string);
//Displays the reverse of given string
System.out.println("Reverse of given string: " + reversedStr);
}
```

Original string: RCOEM

Reverse of given string: MEOCR

Q27

```
public class Q27 {
    public static void main(String[] args) {
        int a=15;
        int b=35;
        int c;
        c=a;
        a=b;
        b=c;
        System.out.println("value of a:"+a);
        System.out.println("value of b:"+b);
    }
}
```

value of a:35

value of b:15

```
public class Q27 {
    public static void main(String[] args) {
        int a=15;
        int b=35;
        a=a+b;
        b=a-b;
        a=a-b;
        System.out.println("value of a:"+a);
        System.out.println("value of b:"+b);
    }
}
```

```
System.out.println(number);
}

// Using enhanced for loop with a 2D array
int[][] matrix = {{1, 2, 3}, {4, 5, 6}, {7, 8, 9}};

// Printing elements of the 2D array
System.out.println("\nElements of the 2D array using
enhanced for loop:");
    for (int[] row : matrix) {
        for (int value : row) {
            System.out.print(value + " ");
        }
        System.out.println();
    }
}
```

Elements of the array using enhanced for loop:

1

2

3

4

5

Elements of the 2D array using enhanced for loop:

123

456

789

Q29

```
public class Q29 {
    public static void main(String[] args) {
        char ch;
        for(ch = 'A'; ch <= 'Z'; ch++)
            System.out.print(ch + " ");
    }
}</pre>
```

## A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

```
import java.util.*;
public class Q30 {
    public static void main(String[] args) {

        Scanner sc= new Scanner(System.in);
        System.out.println("Enter value of a:");
        float a=sc.nextFloat();
        System.out.println("Enter value of b:");
        float b=sc.nextFloat();
```

```
float c;
    c=a*b;
    System.out.println("Multiplication of two float num is:"+c);
}
```

Enter value of a:

34.0

Enter value of b:

56.76

Multiplication of two float num is:1929.84

Q31

```
public class Q31 {
    public static void main(String[] args) {
        // Define an array
        int[] array = {1, 2, 3, 4, 5};

        // Print elements of the array
        System.out.println("Elements of the array:");
        for (int i = 0; i < array.length; i++) {
            System.out.println("Element at index " + i + ": " + array[i]);
        }
    }
}</pre>
```

Elements of the array:

Element at index 0: 1

Element at index 1: 2

Element at index 2: 3

Element at index 3: 4

Element at index 4:5

```
System.out.print(num + " ");
}
}
```

Elements of the destination array:

12345

Q33

```
public class Q33 {
    public static void main(String[] args) {
        char ch1='a';
        char ch2='b';
        int ascii1=ch1;
        int ascii2=ch2;
        System.out.println("The ASCII value of " + ch1 + " is: " + ascii1);
        System.out.println("The ASCII value of " + ch2 + " is: " + ascii2);
    }
}
```

The ASCII value of a is: 97

The ASCII value of b is: 98

Q34

After implicit conversion:

int value: 100

double value: 100.0

After explicit conversion:

double value: 123.45

int value: 123

```
import java.util.*;

public class Q35 {
    public static void main(String[] args) {
        int C;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter value of Faranite:");
        int F=sc.nextInt();
        C=(F-32)*5/9;
        System.out.println(C);
    }
}
```

Enter value of Faranite:

500

260

Q36

```
import java.util.Scanner;

public class Q36 {
    public static void main(String[] args) {
        Float F;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter value of celcious:");
        float C=sc.nextInt();
        F=(9*C/5)+32;
        System.out.println(F);
    }
}
```

Enter value of celcious:

65

149.0