NAME: Rohit. M. Somani LMS LOGIN ID:BFL2022067 JAVA ASSIGNMENT

Q1.

```
public static void main(String[] args) {
     int n = 8;
      // Shift
                                               // Signed Right Shift by 1
// Signed Left Shift by 1
// Unsigned Shift
      System.out.println(n >> 1);
      System.out.println(n << 1);</pre>
      System.out.println(n >>> 1);
      int a = 3;
      int b = 6;
      int c = 7;
      // Bitwise Operators;
                                                 // Bitwise OR
// Bitwise AND
      System.out.println(a | b);
      System.out.println(a & b);
      System.out.println(a ^ b);
                                                 // Bitwise XOR
      System.out.println(~c);
                                                  // Bitwise Compliment
      // Relational Operators;
      int d = 7;
      int e = 5;
      int f = 7;
      System.out.println(d==f);
      System.out.println(d!=e);
      System.out.println(d>e);
      System.out.println(d>=f);

    Problems @ Javadoc   □ Declaration  □ Console ×

<terminated > Switchcase [Java Application] C:\Program Files\Java\jdk-16\bin\ja
4
16
4
7
2
5
-8
true
true
true
true
```

Q3.

```
public static void main(String[] args) {
      Scanner sc= new Scanner(System.in);
      int n=sc.nextInt();
      if(n%4==0)
      \{if (n\%100 == 0 \&\& n\%400!=0)\}
          System.out.println(n+" is not a leap year");
          System.out.println(n+" is a leap year");
      }
      else
      {System.out.println(n+" is not a leap year");
    }}}
1900
1900 is not a leap year
2000
2000 is a leap year
1984
1984 is a leap year
```

Q4.

```
public static void main(String[] args) {
   int sum=0;
      for( int i=1;i<=10;i++)
      {sum+=i;}
      System.out.println("The sum of the first 10 numbers is "+sum);
}}</pre>
```

The sum of the first 10 numbers is 55

Q5.

```
package Switch;
public class Switchcase {
    public static void main(String[] args) {
        int month = 11;
        String name = "";
        switch(month) {
            case 1:
                name = "January";
                break;
            case 2:
                name = "February";
                break;
            case 3:
                name = "March";
                break;
            case 4:
                name = "April";
                break;
            case 5:
                name = "May";
                break;
            case 6:
                name = "June";
                break;
            case 7:
                name = "July";
                break;
                name = "August";
```

```
case 8:
              name = "August";
               break;
           case 9:
               name = "September";
               break;
           case 10:
              name = "October";
               break;
           case 11:
              name = "November";
               break;
           case 12:
              name = "December";
               break;
           default: System.out.println("Enter a valid month between 1 and 12.");
       }
       System.out.println(name);
   }
}
```

November