

Q1. Operators

```
module-info.java FirstClass.java × leapYear.java primeNumber.java loop.java switchCase.java
1 package tutorial1;
2
3 public class FirstClass {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7
8
9         System.out.println(2<<1); //left shift operator
10
11         boolean a = true;
12         boolean b = false;
13
14         System.out.println(a && b); //logical operator &&
15
16
17         int x = 67;
18         int y = 3;
19
20         if(x >= y)
21             System.out.println(x + " is greater than or equal to " + y);
22         else
23             System.out.println(x + " is less than " + y);
24     }
25 }
26
27
28
29
```

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<terminated> FirstClass [Java Application] X:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\

4
false
67 is greater than or equal to 3

Q2. Leap year

```
module-info.java FirstClass.java × leapYear.java primeNumber.java loop.java switchCase.java
1 package tutorial1;
2
3 public class leapYear {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         int year = 2023;
8
9         if(year%4 == 0)
10             System.out.println("The year " + year + " is a leap year");
11         else
12             System.out.println("The year " + year + " is not a leap year");
13     }
14 }
15
16 }
17
```

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<terminated> leapYear [Java Application] X:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\

The year 2023 is not a leap year

Q3. Prime Number

```
module-info.java  FirstClass.java  leapYear.java  primeNumber.java ×  loop.java  switchCase.java
1  package tutorial1;
2
3  public class primeNumber {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          int n = 67;
8
9          boolean isPrime = true;
10
11         if(n==0 || n==1) {
12             isPrime = false;
13         }
14         else {
15             for (int i = 2; i <= n / 2; ++i) {
16                 if (n % i == 0) {
17                     isPrime = false;
18                     break;
19                 }
20             }
21         }
22     }
23
24     if(isPrime)
25         System.out.println("The number is a prime number");
26     else
27         System.out.println("The number is not a prime number");
28 }
```

Q4. Sum of first 10 number

```
module-info.java  FirstClass.java  leapYear.java  primeNumber.java  loop.java ×  switchCase.java
1  package tutorial1;
2
3  public class loop {
4
5      public static void main(String[] args) {
6          // TODO Auto-generated method stub
7          int sum = 0;
8          int n = 10;
9          for(int i=1;i<=10;i++)
10             {
11                 sum+=i;
12             }
13
14         System.out.println("The sum of first " + n + " natural numbers is " + sum);
15     }
16 }
17
18
19
```

<terminated> loop [Java Application] X:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116
The sum of first 10 natural numbers is 55

Q5. Switch Case



```
1 package tutorial1;
2
3 public class switchCase {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         String weather = "Rainy";
8
9         switch(weather)
10        {
11            case "Sunny":
12                System.out.println("You can go out to play");
13                break;
14
15            case "Rainy":
16                System.out.println("You cannot go out to play");
17                break;
18
19            default:
20                System.out.println("We will see later");
21        }
22
23    }
24
25 }
26
27 }
28
```

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<terminated> switchCase [Java Application] X:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116

You cannot go out to play