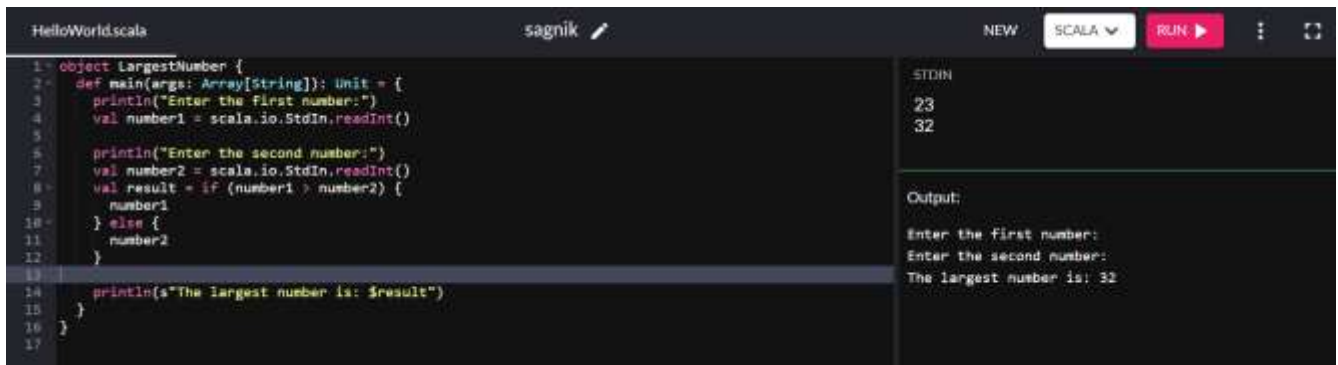


## LAB EXPERIMENT-2

Q1. Scala program to find largest number among two numbers.



The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code defines an object 'LargestNumber' with a 'main' method. It prompts the user to enter two numbers, reads them from 'stdin', and then uses an 'if' statement to determine the larger number. The output shows the first number as 23 and the second as 32, with the final output being 'The largest number is: 32'.

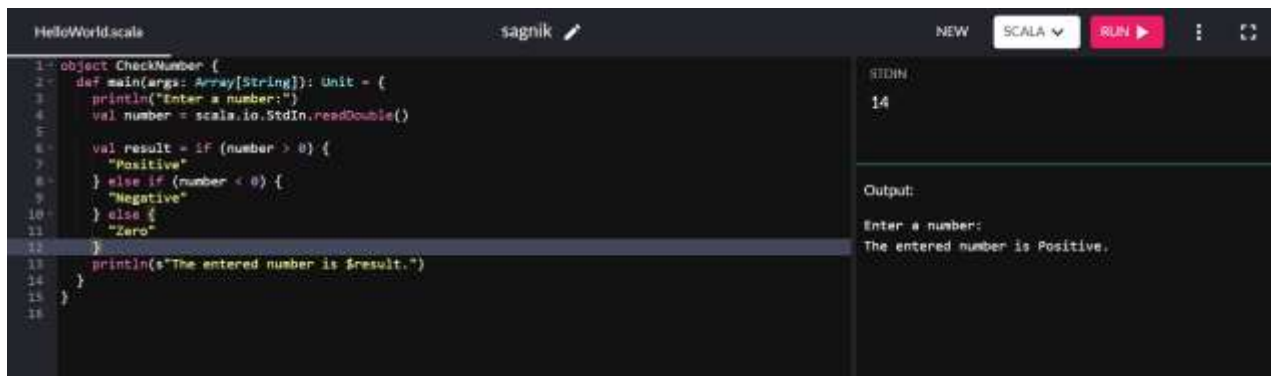
```
1 object LargestNumber {  
2   def main(args: Array[String]): Unit = {  
3     println("Enter the first number:")  
4     val number1 = scala.io.StdIn.readInt()  
5  
6     println("Enter the second number:")  
7     val number2 = scala.io.StdIn.readInt()  
8     val result = if (number1 > number2) {  
9       number1  
10    } else {  
11      number2  
12    }  
13  
14    println(s"The largest number is: $result")  
15  }  
16 }  
17
```

STDIN  
23  
32

Output:  
Enter the first number:  
Enter the second number:  
The largest number is: 32

Q2. Scala program to find a number is positive or negative.

i. When Positive:



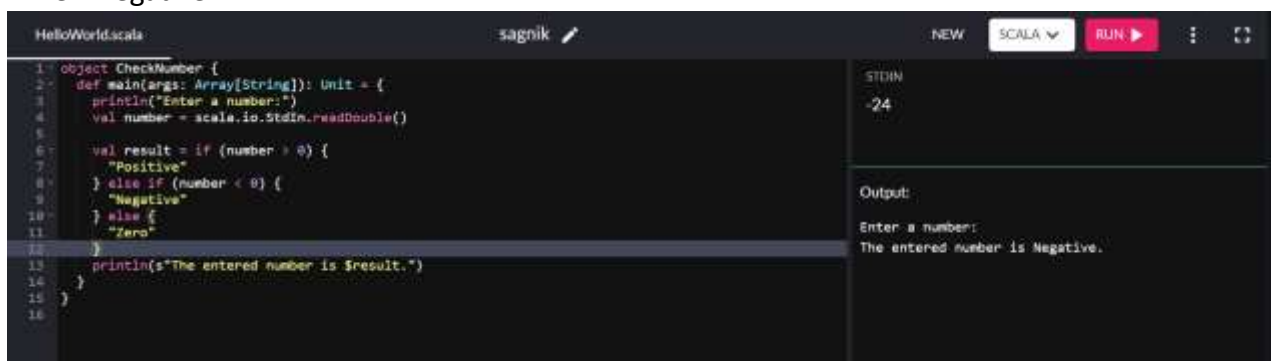
The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code defines an object 'CheckNumber' with a 'main' method. It prompts the user to enter a number, reads it from 'stdin', and then uses an 'if' statement to check if the number is greater than 0. If true, it prints 'Positive'. The output shows the entered number as 14 and the final output being 'The entered number is Positive.'.

```
1 object CheckNumber {  
2   def main(args: Array[String]): Unit = {  
3     println("Enter a number:")  
4     val number = scala.io.StdIn.readDouble()  
5  
6     val result = if (number > 0) {  
7       "Positive"  
8     } else if (number < 0) {  
9       "Negative"  
10    } else {  
11      "Zero"  
12    }  
13    println(s"The entered number is $result.")  
14  }  
15 }  
16
```

STDIN  
14

Output:  
Enter a number:  
The entered number is Positive.

ii. When Negative:



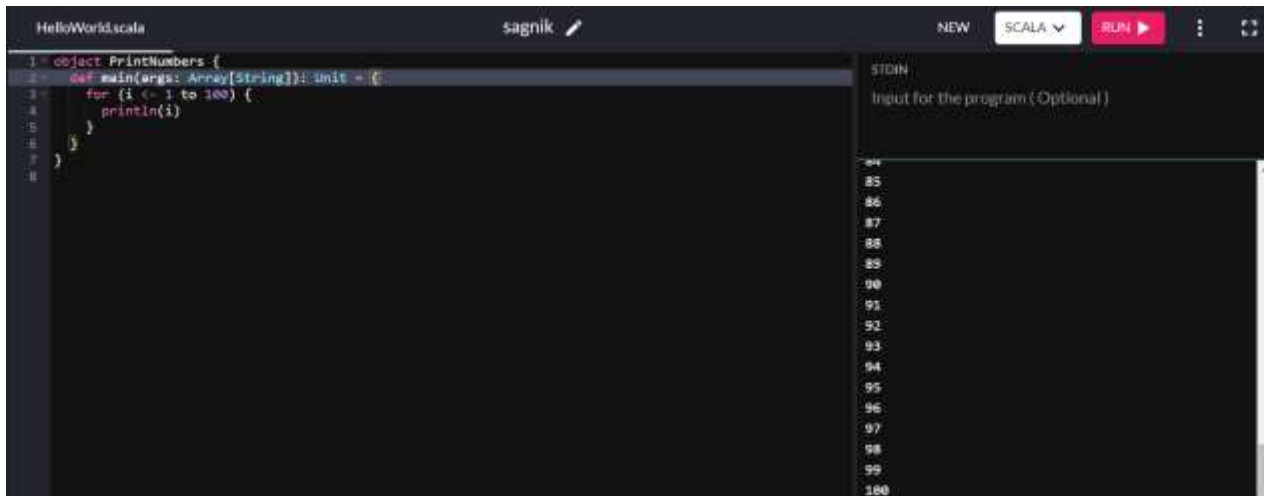
The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code is identical to the previous one, but the output shows the entered number as -24 and the final output being 'The entered number is Negative.'.

```
1 object CheckNumber {  
2   def main(args: Array[String]): Unit = {  
3     println("Enter a number:")  
4     val number = scala.io.StdIn.readDouble()  
5  
6     val result = if (number > 0) {  
7       "Positive"  
8     } else if (number < 0) {  
9       "Negative"  
10    } else {  
11      "Zero"  
12    }  
13    println(s"The entered number is $result.")  
14  }  
15 }  
16
```

STDIN  
-24

Output:  
Enter a number:  
The entered number is Negative.

Q3. Scala program to print numbers from 1 to 100 using for loop.



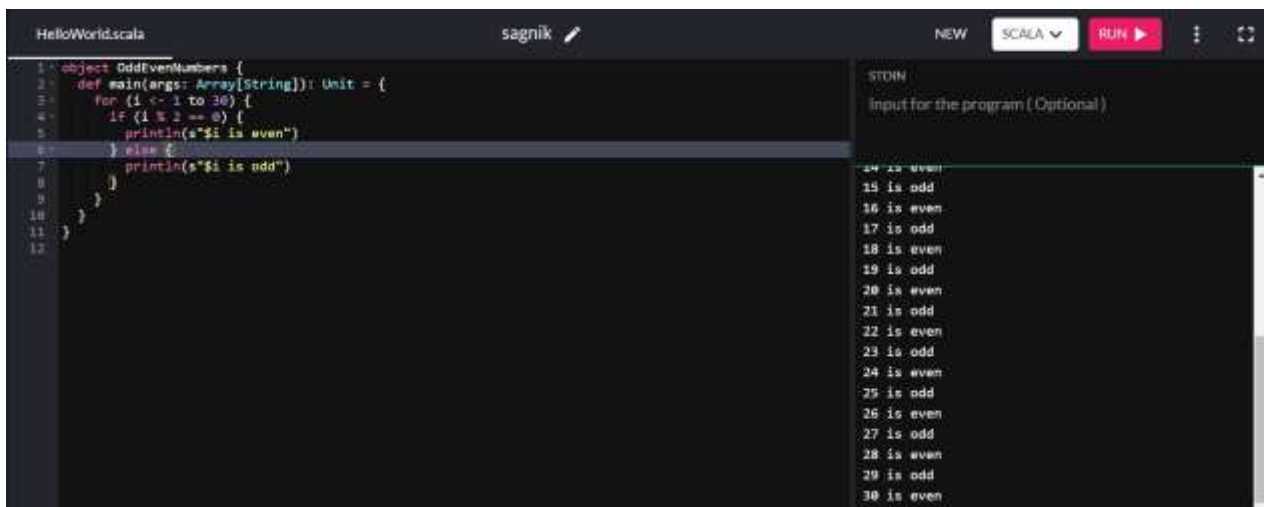
The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code defines an object 'PrintNumbers' with a 'main' method that uses a 'for' loop to print numbers from 1 to 100. The output on the right shows the numbers 85 through 100.

```
1 object PrintNumbers {  
2   def main(args: Array[String]): Unit = {  
3     for (i <- 1 to 100) {  
4       println(i)  
5     }  
6   }  
7 }  
8
```

STDIN  
Input for the program (Optional)

85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100

Q4. Write a program using Scala to print odd and even numbers from a range of 30 numbers.



The screenshot shows a Scala IDE with a file named 'HelloWorld.scala'. The code defines an object 'OddEvenNumbers' with a 'main' method that uses a 'for' loop and an 'if' statement to print whether each number from 1 to 30 is even or odd. The output on the right shows the results for numbers 14 through 30.

```
1 object OddEvenNumbers {  
2   def main(args: Array[String]): Unit = {  
3     for (i <- 1 to 30) {  
4       if (i % 2 == 0) {  
5         println(s"$i is even")  
6       } else {  
7         println(s"$i is odd")  
8       }  
9     }  
10  }  
11 }  
12
```

STDIN  
Input for the program (Optional)

14 is even  
15 is odd  
16 is even  
17 is odd  
18 is even  
19 is odd  
20 is even  
21 is odd  
22 is even  
23 is odd  
24 is even  
25 is odd  
26 is even  
27 is odd  
28 is even  
29 is odd  
30 is even