

WEEKLY ASSIGNMENT-1
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22BTRAD001

Code1:

```
object Change_datatype {  
  def Float_type(x:Float): String = {  
    val result=x.toString  
    println("We have changed result to:"+result.getClass)  
    result  
  }  
  
}  
  
object Main {  
  def main(args: Array[String]): Unit = {  
    print("Floating Point Number:")  
    var input:Float =scala.io.StdIn.readFloat()  
    println(input)  
    val type1=scala.io.StdIn.readLine()  
    println(type1)  
    println("Result is "+Change_datatype.Int_type(input)  
  }  
}
```

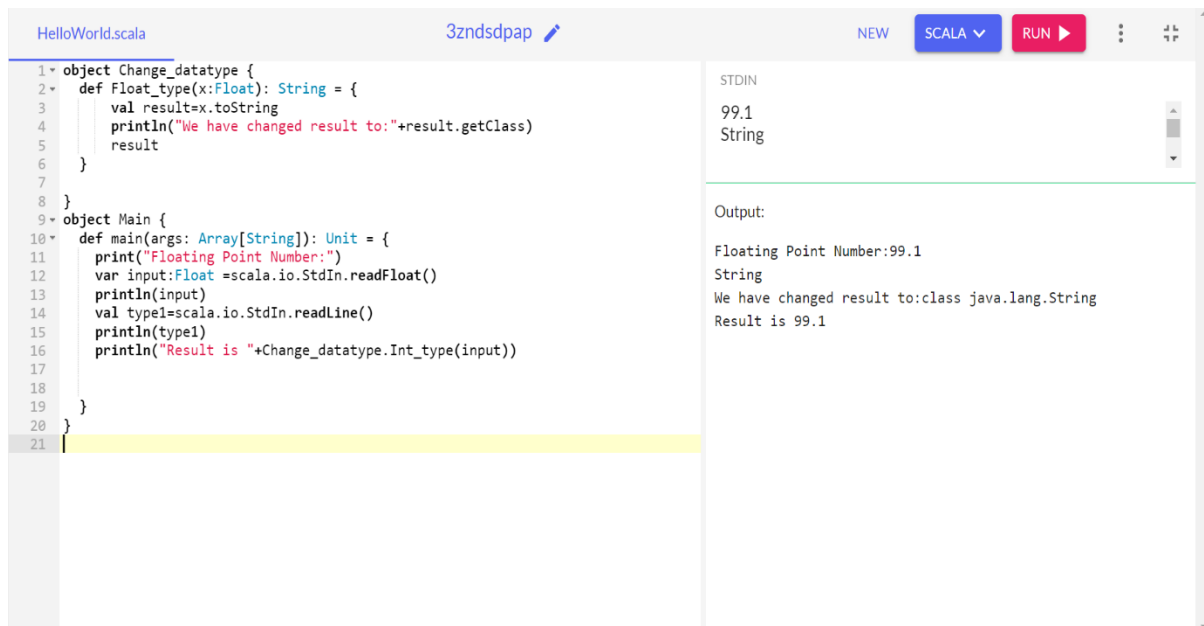
Output

Floating Point Number:99.1

String

We have changed result to:class java.lang.String

Result is 99.1



The screenshot shows a Scala IDE interface. The top bar includes the filename 'HelloWorld.scala', the username '3zndsdpap', and buttons for 'NEW', 'SCALA', and 'RUN'. The main editor displays the following Scala code:

```
1 object Change_datatype {  
2   def Float_type(x:Float): String = {  
3     val result=x.toString  
4     println("We have changed result to:"+result.getClass)  
5     result  
6   }  
7  
8 }  
9 object Main {  
10  def main(args: Array[String]): Unit = {  
11    print("Floating Point Number:")  
12    var input:Float =scala.io.StdIn.readFloat()  
13    println(input)  
14    val type1=scala.io.StdIn.readLine()  
15    println(type1)  
16    println("Result is "+Change_datatype.Int_type(input))  
17  
18  }  
19 }  
20  
21
```

On the right side, the 'STDIN' input is shown as '99.1' and 'String'. Below it, the 'Output' section displays the program's execution results:

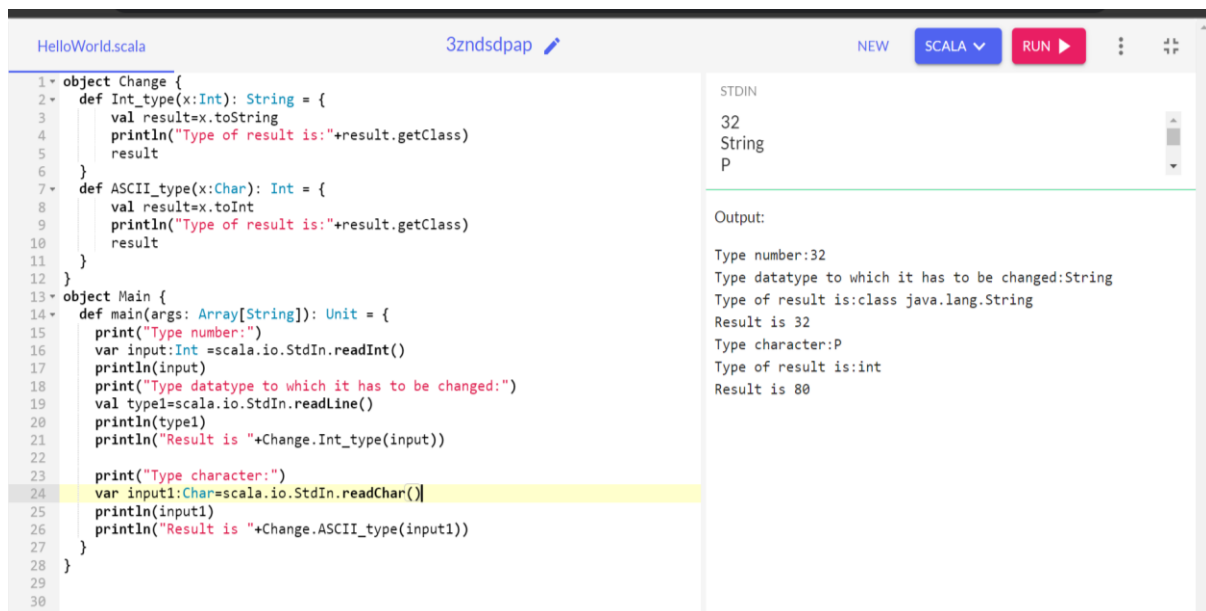
```
Floating Point Number:99.1  
String  
We have changed result to:class java.lang.String  
Result is 99.1
```

Code2:

```
object Change {  
  def Int_type(x:Int): String = {  
    val result=x.toString  
    println("Type of result is:"+result.getClass)  
    result  
  }  
  def ASCII_type(x:Char): Int = {  
    val result=x.toInt  
    println("Type of result is:"+result.getClass)  
    result  
  }  
}  
  
object Main {  
  def main(args: Array[String]): Unit = {  
    print("Type number:")  
    var input:Int =scala.io.StdIn.readInt()  
    println(input)  
    print("Type datatype to which it has to be changed:")  
    val type1=scala.io.StdIn.readLine()  
    println(type1)  
    println("Result is "+Change.Int_type(input))  
  
    print("Type character:")  
    var input1:Char=scala.io.StdIn.readChar()  
    println(input1)  
    println("Result is "+Change.ASCII_type(input1))  
  }  
}
```

Output:

Type number:32
Type datatype to which it has to be changed:String
Type of result is:class java.lang.String
Result is 32
Type character:P
Type of result is:int
Result is 80



The screenshot shows a Scala IDE window titled 'HelloWorld.scala' by user '3zndsdpap'. The code defines two functions, `Int_type` and `ASCII_type`, and a `Main` object with a `main` method. The `main` method prompts the user for a number, a datatype, and a character, then calls the respective functions and prints the results. The output pane on the right shows the execution results, including the input values and the output of the functions.

```
1 object Change {  
2   def Int_type(x:Int): String = {  
3     val result=x.toString  
4     println("Type of result is:"+result.getClass)  
5     result  
6   }  
7   def ASCII_type(x:Char): Int = {  
8     val result=x.toInt  
9     println("Type of result is:"+result.getClass)  
10    result  
11  }  
12 }  
13 object Main {  
14   def main(args: Array[String]): Unit = {  
15     print("Type number:")  
16     var input:Int =scala.io.StdIn.readInt()  
17     println(input)  
18     print("Type datatype to which it has to be changed:")  
19     val type1=scala.io.StdIn.readLine()  
20     println(type1)  
21     println("Result is "+Change.Int_type(input))  
22  
23     print("Type character:")  
24     var input1:Char=scala.io.StdIn.readChar()  
25     println(input1)  
26     println("Result is "+Change.ASCII_type(input1))  
27   }  
28 }  
29  
30
```

STDIN

32
String
P

Output:

Type number:32
Type datatype to which it has to be changed:String
Type of result is:class java.lang.String
Result is 32
Type character:P
Type of result is:int
Result is 80