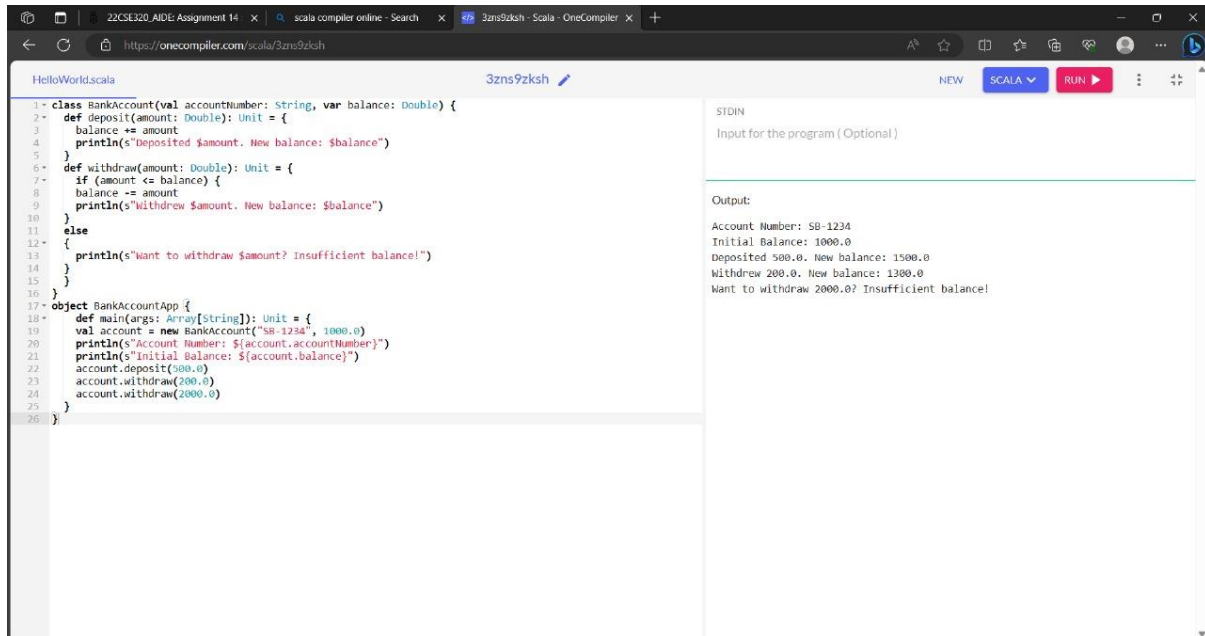


## LAB-14

ABHINANDAN SINGH PARMAR

22BTRAD001

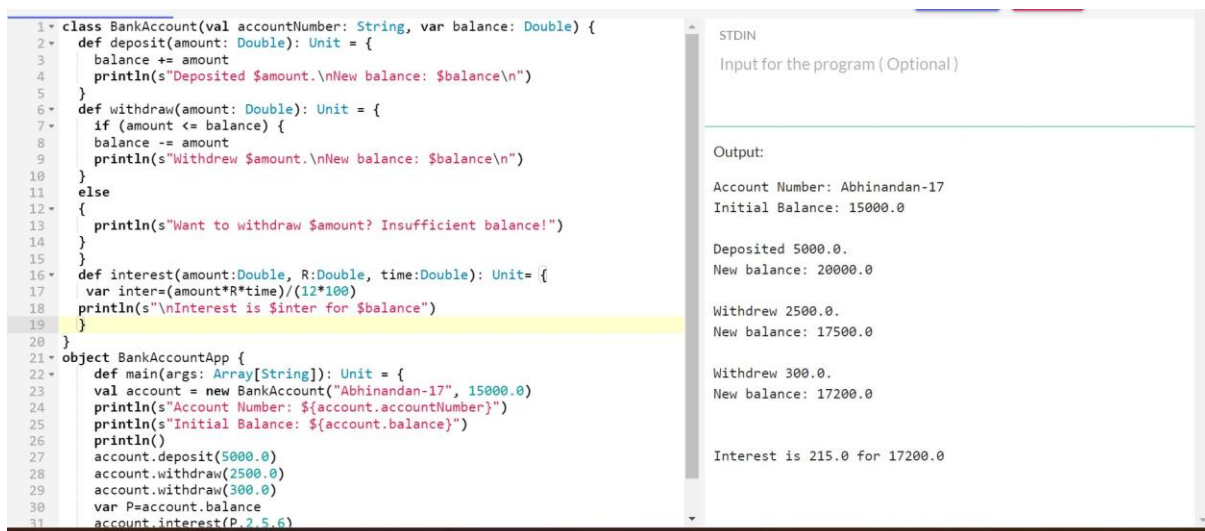


The screenshot shows a web browser window with the URL <https://onecompiler.com/scala/3zns9zksh>. The editor contains the following Scala code:

```
1 class BankAccount(val accountNumber: String, var balance: Double) {
2   def deposit(amount: Double): Unit = {
3     balance += amount
4     println(s"Deposited $amount. New balance: $balance")
5   }
6   def withdraw(amount: Double): Unit = {
7     if (amount <= balance) {
8       balance -= amount
9       println(s"Withdrew $amount. New balance: $balance")
10    }
11    else
12    {
13      println(s"Want to withdraw $amount? Insufficient balance!")
14    }
15  }
16 }
17 object BankAccountApp {
18   def main(args: Array[String]): Unit = {
19     val account = new BankAccount("SB-1234", 1000.0)
20     println(s"Account Number: ${account.accountNumber}")
21     println(s"Initial Balance: ${account.balance}")
22     account.deposit(500.0)
23     account.withdraw(200.0)
24     account.withdraw(2000.0)
25   }
26 }
```

The output on the right side of the compiler is:

```
Account Number: SB-1234
Initial Balance: 1000.0
Deposited 500.0. New balance: 1500.0
Withdrew 200.0. New balance: 1300.0
Want to withdraw 2000.0? Insufficient balance!
```



The screenshot shows a web browser window with the URL <https://onecompiler.com/scala/3zns9zksh>. The editor contains the following Scala code:

```
1 class BankAccount(val accountNumber: String, var balance: Double) {
2   def deposit(amount: Double): Unit = {
3     balance += amount
4     println(s"Deposited $amount.\nNew balance: $balance\n")
5   }
6   def withdraw(amount: Double): Unit = {
7     if (amount <= balance) {
8       balance -= amount
9       println(s"Withdrew $amount.\nNew balance: $balance\n")
10    }
11    else
12    {
13      println(s"Want to withdraw $amount? Insufficient balance!")
14    }
15  }
16   def interest(amount: Double, R: Double, time: Double): Unit = {
17     var inter = (amount * R * time) / (12 * 100)
18     println(s"\nInterest is $inter for $balance")
19   }
20 }
21 object BankAccountApp {
22   def main(args: Array[String]): Unit = {
23     val account = new BankAccount("Abhinandan-17", 15000.0)
24     println(s"Account Number: ${account.accountNumber}")
25     println(s"Initial Balance: ${account.balance}")
26     println()
27     account.deposit(5000.0)
28     account.withdraw(2500.0)
29     account.withdraw(300.0)
30     var P = account.balance
31     account.interested(P, 2.5, 6)
```

The output on the right side of the compiler is:

```
Account Number: Abhinandan-17
Initial Balance: 15000.0

Deposited 5000.0.
New balance: 20000.0

Withdrew 2500.0.
New balance: 17500.0

Withdrew 300.0.
New balance: 17200.0

Interest is 215.0 for 17200.0
```

### Code:

```
class BankAccount(val accountNumber: String, var balance: Double) {  
    def deposit(amount: Double): Unit = {  
        balance += amount  
        println(s"Deposited $amount.\nNew balance: $balance\n")  
    }  
    def withdraw(amount: Double): Unit = {  
        if (amount <= balance) {  
            balance -= amount  
            println(s"Withdrew $amount.\nNew balance: $balance\n")  
        }  
        else  
        {  
            println(s"Want to withdraw $amount? Insufficient balance!")  
        }  
    }  
    def interest(amount:Double, R:Double, time:Double): Unit= {  
        var inter=(amount*R*time)/(12*100)  
        println(s"\nInterest is $inter for $balance")  
    }  
}  
object BankAccountApp {
```

```
def main(args: Array[String]): Unit = {  
    val account = new BankAccount("Abhinandan-17", 15000.0)  
    println(s"Account Number: ${account.accountNumber}")  
    println(s"Initial Balance: ${account.balance}")  
    println()  
    account.deposit(5000.0)  
    account.withdraw(2500.0)  
    account.withdraw(300.0)  
    var P=account.balance  
    account.interest(P,2.5,6)  
}  
}
```

### **Output:**

```
Account Number: Abhinandan-17  
Initial Balance: 15000.0
```

```
Deposited 5000.0.  
New balance: 20000.0
```

```
Withdrew 2500.0.  
New balance: 17500.0
```

```
Withdrew 300.0.  
New balance: 17200.0
```

```
Interest is 215.0 for 17200.0
```