01)

```scala
1   import scala.io.StdIn
    run | debug
2   object interest{
3       val flat=(deposit:Double,flat:Double) => deposit * flat/100;
4
5       def chooseFlat(amount:Double):Double={
6           amount match{
7               case amount if amount <= 20000 => flat(amount,2.0)
8               case amount if amount <= 200000 => flat(amount,4.0)
9               case amount if amount <= 2000000 => flat(amount,3.5)
10              case _ => flat(amount,6.5)
11          }
12      }
13
14      def main(args: Array[String]): Unit = {
15          println("Enter amount of deposite:");
16          val amount= StdIn.readDouble()
17
18          println("The actual amount of interest that the money earns in a year: Rs." + chooseFlat(amount))
19      }
20  }
```

answer

```
Enter amount of deposite:
450785
The actual amount of interest that the money earns in a year: Rs.15777.475
```

02)

```scala
1   import scala.io.StdIn
    run | debug
2   object patternMatching{
3       val input =(value:Int) => value match{
4           case value if value <= 0 => println("Negative/Zero")
5           case value if value % 2 == 0 => println("Even number")
6           case value if value % 2 != 0 => println("Odd number")
7       }
8       def main(args: Array[String]): Unit = {
9           println("Enter integer value:")
10          val getInput=StdIn.readInt()
11
12          input(getInput);
13      }
14  }
```

answer

```
Enter integer value:
78
Even number
```

03)

```scala
object printName{
    val toUpper= (name:String) => name.toUpperCase()
    val toLower= (name:String) => name.toLowerCase()

    def formatNames(name:String)(formatFunction:String => String):String = formatFunction(name)

    def main(args: Array[String]): Unit = {
        println(formatNames("Benny")(toUpper))
        println(formatNames("Niroshan")(name => name.substring(1,2).toUpperCase() + name.substring(2).toLowerCase()))
        println(formatNames("Saman")(toLower))
        println(formatNames("Kumara")(name => name.substring(0, 1).toUpperCase + name.substring(1, name.length - 1) + name.substring(name.length - 1).toUpperCase))
    }
}
```

answer

```
[info] running printName
BENNY
Iroshan
saman
KumarA
```