```
Q1.scala
           X
                O2.scala
                                 O3.scala
Q1.scala > ...
       import scala.io.StdIn.readDouble;
       object Q1 extends App{
           def calintereset(deposit:Double):Double=deposit match{
                case x if x<0 \Rightarrow 0;
                case x if x<20000 => x*0.02;
                case x if x<2000000 \Rightarrow x*0.04;
                case x if x<20000000 \Rightarrow x*0.035;
                case x if x>2000000 \Rightarrow x*0.065;
 11
           print("Enter deposit amount: ");
           var x=readDouble();
           print("Interest: "+calintereset(x));
PROBLEMS
                    TERMINAL
                               JUPYTER
                                        DEBUG CONSOLE
Enter deposit amount: 100
Interest: 2.0
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q1.scala
Enter deposit amount: 100000
Interest: 4000.0
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q1.scala
Enter deposit amount: 1000000
Interest: 35000.0
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q1.scala
Enter deposit amount: 3000000
Interest: 195000.0
```

```
Q1.scala
                O2.scala
                           ×
                                Q3.scala
Q2.scala > {} Q2
       import scala.io.StdIn.readInt;
       object Q2 extends App{
           def patternMatching(num:Int):String=num match{
               case x if x<=0 => "Negative/Zero";
               case x if x%2==0 => "Even Number";
               case x if x%2!=0 => "Odd Number";
           print("Enter an Integer: ");
 11
 12
           var x=readInt();
           print(patternMatching(x));
 13
PROBLEMS
          OUTPUT
                   TERMINAL
                              JUPYTER
                                      DEBUG CONSOLE
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q2.scala
Enter an Integer: 0
Negative/Zero
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q2.scala
Enter an Integer: -5
Negative/Zero
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q2.scala
Enter an Integer: 44
Even Number
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala Q2.scala
Enter an Integer: 45
Odd Number
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> [
```

```
X
Q3.scala
■ Q3.scala > {} Q3 > 

formatNames
       object Q3 extends App{
           def toUpper(str:String):String=str.toUpperCase();
           def toLower(str:String):String=str.toLowerCase();
           def formatNames(name:String)(id:Int*)(function:String=>String):String={
               if(id.isEmpty){
                   return function(name);
               }else{
                   var text="";
                   var j=0;
                   while(j<name.length()){
 11
 12
                        if(id.contains(j)){
                            text=text+function(name.charAt(j).toString);
                        }else{
                           text=text+name.charAt(j).toString;
 16
                        j+=1;
                   return text;
 21
           };
           println(formatNames("Benny")()(toUpper));
           println(formatNames("Niroshan")(0)(toUpper));
           println(formatNames("Saman")()(toLower));
           println(formatNames("Kumara")(5)(toUpper));
PROBLEMS
           OUTPUT
                   TERMINAL
                              JUPYTER
                                       DEBUG CONSOLE
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scalac Q3.scala
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> scala 03.scala
BENNY
Niroshan
saman
KumarA
PS C:\Users\Thamira Weerakoon\Desktop\UCSC\Year 2\Sem1\FP\T4> [
```