

## LAB-4

Q1.

```
• /*  
    Program that takes two numbers as parameters  
    and returns the Maximum and Minimum of them.  
    (Use Single Nested Function)  
*/  
  
• object Lab_4_1 {  
• def main(args: Array[String])  
  {  
    println("Maximum & Minimum")  
    MAX_MIN(25,75)  
  }  
• def MAX_MIN( a:Int, b:Int)  
  {  
    def Max()  
    {  
      if(a>b)  
        println("Max : "+a)
```

```
    else
        println("Max : "+b)
    }
    def Min()
    {
        if(a<b)
            println("Min : "+a)
        else
            println("Min : "+b)
        }
    Max()
    Min()
}
}
```

Console ✕

<terminated> Lab\_4\_1\$ [Scala Application] C:\Program Files\Java\jre1.8.0\_301\bin\javaw.exe (07-Aug-2021, 4:08:31 PM)

**Maximum & Minimum**

**Max : 75**

**Min : 25**

Q2.

```
•/*  
Program that takes two numbers as parameters  
and returns the Maximum and Minimum of them.  
(Use Multi Nested Function)  
*/  
•object Lab_4_2 {  
•def main(args: Array[String])  
{  
println("Maximum & Minimum")  
MAX_MIN(15,10)  
}  
•def MAX_MIN( a:Int, b:Int)  
{  
•def MAX()  
{  
•def Max()  
{  
if(a>b)  
println("Max : "+a)  
else
```

```

        println("Max : "+b)
    }
}
• def MIN()
{
•   def Min()
    {
        if(a<b)
            println("Min : "+a)
        else
            println("Min : "+b)
    }
}
MAX()
MIN()
}
}

```

*Maximum & Minimum*

*Max : 15*

*Min : 10*

Q3.

```
• /*  
  Program in scala to check the number is even or odd  
    (Single Nested Function)  
  */  
  
• object Lab_4_3 {  
• def main(args: Array[String])  
  {  
    Even_Odd(10)  
  }  
• def Even_Odd(l: Int)  
  {  
    def Func()  
    {  
      if(l%2==0)  
      {  
        println("Even")  
      }  
      else  
      {
```

```
{  
    println("Odd")  
}  
}  
Func()  
}  
}
```

Console ✕

<terminated> Lab\_4\_3\$ [Scala Application] C:\Program Files\Java\jre1.8.0\_301\bin\javaw.exe (07-Aug-2021, 4:17:06 PM)

**Even**

Q4.

```
•/*  
  Program in scala to check the number is even or odd  
    (Multiple Nested Function)  
*/  
  
• object Lab_4_4 {  
• def main(args: Array[String])  
  {  
    Even_Odd(11)  
  }  
• def Even_Odd(l: Int)  
  {  
•   def Function()  
    {  
•   def Func()  
    {  
      if(l%2==0)  
    {
```

```
{  
    println("Even")  
}  
else  
{  
    println("Odd")  
}  
}  
Func()  
}  
}  
}
```

Console ✕

<terminated> Lab\_4\_4\$ [Scala Application] C:\Program Files\Java\jre1.8.0\_301\bin\javaw.exe (07-Aug-2021, 4:19:21 PM)

**Odd**



Q5.

```
•/*  
Practice first class functions for below scenarios :  
a. Adding one to an integer value  
b. Check integer value is 0 or not  
c. Add,multiply two numbers  
*/  
  
•object Lab_4_5 {  
  def main(args:Array[String])  
  {  
    Increment(5)  
    Integer(1)  
    AddMul(5,5)  
  }  
  def Increment(l:Int)  
  {  
    var j = l  
    j+=1  
  }  
}
```

```

    println("Incremented Value: "+J)
}
def Integer(I:Int)
{
    if(I==0)
        println("Integer Value is Equal to Zero")
    else
        println("Integer Value is Not Equal to Zero")
}
def AddMul(A:Int,B:Int)
{
    var C,D =0
    C = A + B
    D = A*B
    println("Addition of Numbers is " + C)
    println("Multiplication of Numbers is " + D)
}
}

```

Incremented Value: 6  
 Integer Value is Not Equal to Zero  
 Addition of Numbers is 10  
 Multiplication of Numbers is 25