Assignment On Scala

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Roll No.: TAI&D32

Subject: Data Science

Code:

```
object Hello {
    def main(args: Array[String]) = {
        println("Hello, world")
        println("What you want to do...")
        println("Enter 1 for addition\nEnter 2 for even_odd\nEnter 3 for area of sqaure")
        var choice = scala.io.StdIn.readLine().toInt
        if (choice == 1){
            add()
        }
        else if(choice == 2){
            even_odd()
        }
        else if(choice == 3){
            println("Enter side of sqaure: ")
            var side = scala.io.StdIn.readLine().toInt
            var area = area_of_square(side)
```

```
Lab Assignment (Data Science)
      println("Area of Square of side ", side, " is ", area)
     }else{
      println("Please Enter Valid input.")
  }
  def add()={
    println("Enter Number: 1 ")
     var a = scala.io.StdIn.readLine().toInt
    println("Enter Number 2: ")
     var b = scala.io.StdIn.readLine().toInt
    println("Addition is: ")
    println(a+b)
  }
  def even_odd()={
   println("Enter Number to check even odd: ")
   var a = scala.io.StdIn.readLine().toInt
   if (a \% 2 == 0){
    println(a, " is Even Number")
   else{
    println(a," is Odd Number")
```

```
Lab Assignment (Data Science)

def area_of_square(side: Float):Float ={
  return (side * side)
}
```

Output:

```
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     1
2
3
                                                             }
else if(choice == 2){
  even_odd()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hello, world
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        What you want to do...
Enter 1 for addition
Enter 2 for even_odd
Enter 3 for area of squure
Enter Number: 1
Enter Number 2:
                                                            even.odd()
}
else if(choice == 3){
    println("Enter side of sqaure: ")
    var side = scala.lo.Stdin.readline().toInt
    var area = area_of_sqare(side)
    println("Area of Square of side ", side, " is ", area)
}else{
    println("Please Enter Valid input.")
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Addition is:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          warning: 1 deprecation; re-run with -deprecation for details
                                          def add()={
    println("Enter Number: 1 ")
    var a = scala.io.5tdIn.readLine().toInt
    println("Enter Number 2: ")
    var b = scala.io.5tdIn.readLine().toInt
    println("Addition is: ")
    println(a+b)
                                         def even_odd()={
    println("Enter Number to check even odd: ")
    van a = scala.lo.Stdin.readline().tolot
    Type here to search
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```

Fig. 1.1 Scala Addition Program

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     HelloWorld.scala
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       1 - object Hello {
                                    ect HeIIo {
    def main(angs: Array[String]) = {
        println("HeIIo, world")
        println("What you want to do...")
        println("Enter 1 for addition\nEnter 2 for even_odd\nEnter 3 for area of sqaure")
        var choice = scala.io.StdIn.readLine().toInt
        if (choice == 1){
            add()
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2
6
                                                      }
else if(choice == 2){
even_odd()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hello, world
                                                                                                                                                                                                                                                                                                                                                                                                                                                              What you want to do...
Enter 1 for addition
Enter 2 for even_odd
Enter 3 for area of sqaure
                                                     even_voc,
}
else if(choice == 3){
    println("Enter side of sqaure: ")
    var side = scala.io.StdIn.readLine().toInt
    var area = area_of_sqare(side)
    println("Area of Square of side ", side, " is ", area)
}
**Constant Type

**Constant T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Enter Number to check even odd:
                                                     | println("Area of Square of side ", s:
}else{
| println("Please Enter Valid input.")
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                warning: 1 deprecation; re-run with -deprecation for details
                                   def add()={
    println("Enter Number: 1 ")
    var a = scala.io.stdIn.readLine().toInt
    println("Enter Number 2: ")
    var b = scala.io.stdIn.readLine().toInt
    println("Addition is: ")
    println(a+b)
}
                                     def even_odd()={
  println("Enter Number to check even odd: ")
  var a = scala.io.StdIn.readline().roInt
                                                                                                                                             ** #
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```

Fig. 1.2 Scala Even-Odd Program 1

```
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                                                                                                                                                                                                            SCALA ✓ RUN ▶
 }
else if(choice == 2){
  even_odd()
}
                                                                                                                                                      What you want to do...
Enter 1 for addition
Enter 2 for even_odd
Enter 3 for area of sqaure
                  even_odd()
}
else if(choice == 3){
    println("Enter side of sqaure: ")
    var side = scala.io.stdin.readline().toInt
    var area = area_of_sqare(side)
    println("Area of Square of side ", side, " is ", area)
}else{
    retail("Dease Enter Valid input ")
                                                                                                                                                       Enter Number to check even odd:
                                                                                                                                                      (5, is Odd Number)
                  println("Please Enter Valid input.")
}
                                                                                                                                                       warning: 1 deprecation; re-run with -deprecation for details
            def add()={
    println("Enter Number: 1 ")
    var a = scala.io.stdIn.readLine().toInt
    println("Enter Number 2: ")
    var b = scala.io.stdIn.readLine().toInt
    println("Addition is: ")
    println(a+b)
            def even_odd()={
  println("Enter Number to check even odd: ")
  var a = scala.io.StdIn.readline().toInt
                                                                                                                                                                                              <u>***</u> #
```

Fig. 1.3 Scala Even-Odd Program 2

```
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                                                                                                        3z8ntu97s 🥕
                                                                                                                                                                                                                           SCALA ✓ RUN ▶
  1 * object Hello {
             ect Hello ()
def main(args: Array[String]) = {
    println("Hello, world")
    println("What you want to do...")
    println("Enter 1 for addition\nEnter 2 for even_odd\nEnter 3 for area of sqaure")
    var choice = scala.io.StdIn.readLine().toInt
    if (choice == 1){
        add()
    }
}
                                                                                                                                                                 Hello, world
What you want to do...
Enter 1 for addition
Enter 2 for even_odd
Enter 3 for area of sqaure
                    else if(choice == 2){
  even_odd()
                   Enter side of sqaure
                   | println("Please Enter Valid input.")
                                                                                                                                                                 warning: 1 deprecation; re-run with -deprecation for details
             def add()={
    println("Enter Number: 1 ")
    var a = scala.io.5tdIn.readLine().toInt
    println("Enter Number 2: ")
    var b = scala.io.5tdIn.readLine().toInt
    println("Addition is: ")
    println(a+b)
             def even_odd()={
  println("Enter Number to check even odd: ")
  var a = scala.io.StdIn.readline().toInt
                                                                                                                                                                                                            å 31°C ヘ @ ๒ // ຝາ) ENG 08:44 PM □
                                                   <u>**</u> #
        Type here to search
```

Fig. 1.4 Area of Square