

Anuvind M P

AM.U4AIE22010

---

1.

```
object SumTriple {  
  def sumTriple(a: Int, b: Int): Int = {  
    if (a == b) (a + b) * 3 else a + b  
  }  
  def main(args: Array[String]): Unit = {  
    println(sumTriple(12, 6))  
    println(sumTriple(6, 3))  
  }  
}
```

Output:

18

9

```
object CheckNumbers {  
  def check(a: Int, b: Int): Boolean = {  
    a == 22 || b == 22 || (a + b == 32)  
  }  
  def main(args: Array[String]): Unit = {  
    println(check(18, 9))val prefix = str.take(5)  
    prefix + str + prefix  
    println(check(7, 14))  
    println(check(10, 22))  
    println(check(5, 10))  
  }  
}
```

Output:

false  
false  
true  
false

2.

```
object RemoveChar {  
  def removeChar(str: String, pos: Int): String = {  
    if (pos >= 0 && pos < str.length) str.take(pos) + str.drop(pos + 1)  
  }  
  else  
    str  
}  
def main(args: Array[String]): Unit = {  
  println(removeChar("Anuvind", 2))  
  println(removeChar("hehehe", 3))  
}  
}
```

Output:

Anvind  
hehhe

```
object ModifyString {  
  def modifyString(str: String): String = {  
    val prefix = str.take(5)  
    prefix + str + prefix  
  }  
  def main(args: Array[String]): Unit = {  
    println(modifyString("anuvindmp"))  
  }  
}
```

Output:

anuvianuvindmpanuvi

3.

```
object MultiplicationTable {  
  def printTable(n: Int): Unit = {  
    for (i <- 1 to 10) {  
      println(s"$n x $i = ${n * i}")  
    }  
  }  
  def main(args: Array[String]): Unit = {  
    printTable(5)  
  }  
}
```

Output:

```
5 x 1 = 5  
5 x 2 = 10  
5 x 3 = 15  
5 x 4 = 20  
5 x 5 = 25  
5 x 6 = 30  
5 x 7 = 35  
5 x 8 = 40  
5 x 9 = 45  
5 x 10 = 50
```

```
object LargestElement {  
  def findLargest(arr: Array[Int]): Int = {  
    arr match {  
      case Array() => throw new IllegalArgumentException("Array is empty")  
      case _ => arr.max  
    }  
  }  
  def main(args: Array[String]): Unit = {  
    val numbers = Array(7,45,223,76,67)  
    println(findLargest(numbers))  
  }  
}
```

Output:

223

4.

```
object ProductOfDigits {  
    def productOfDigits(n: Int): Int = {  
        n.toString.map(_.asDigit).product  
    }  
    def main(args: Array[String]): Unit = {  
        println(productOfDigits(852))  
    }  
}
```

Output:

80

```
object PerfectSquare {  
    def isPerfectSquare(n: Int): Boolean = {  
        val sqrt = Math.sqrt(n).toInt  
        sqrt * sqrt == n  
    }  
    def main(args: Array[String]): Unit = {  
        println(isPerfectSquare(100))  
        println(isPerfectSquare(13))  
    }  
}
```

Output:

true  
false