Lab 07 : Working with Scala Built in Controls 01

Q1. Implement all the code snippets given in Part 02 theory lecture(for loop variants).

```
object q1for {
   def main(args: Array[String]) {
   var i = 0
   println("varient 1")
    for (i <- 1 to 3) {
      println(i)
    }
   i = 0
   var j =0
   println("varient 2")
    for (i <- 1 to 3;j<- 1 until 3) {
      println(j)
    }

   println("varient 3")
          val t = List(4,3,5,2)
         var k= for(i <- t if i!=3;if i<5)yield i
          for(i <- k; if i!=3)
            println(i)
}
}
```

Problems Tasks Console

```
<terminated> q1for$ [Scala Application] C:
varient 1
1
2
3
varient 2
1
2
1
2
1
2
varient 3
4
2
```

Q2. Implement Built in operations of scala list by entering student details.

```
object q2list {
  def main(args: Array[String]) {
    val num = List(1,2,3,4)

    println(num.head)
    println(num.tail)
    println(num.isEmpty)
}
}
```

Problems Tasks Console

```
<terminated> q2list$ [Scala Application] C:\Program Files
1
List(2, 3, 4)
false
```

Q3. Write a program in scala to reverse a list and for creating uniform list of size 10 using only one element in the list.

```
object q3rev {
   def main(args: Array[String]) {
    var l= List(1, 2, 3);
    l = l.reverse;
    for (a <- l) {
      print(a+" ");
    }
    println();

    val x = List.fill(10)(2)
    println(x);

  }
}
```

Problems Tasks Console

```
<terminated> q3rev$ [Scala Application] C:\Program Files\
3 2 1
List(2, 2, 2, 2, 2, 2, 2, 2, 2, 2)
```