

1. Write a Scala program to check the largest number among three given integers.

```
// taking three variables
var a: Int = 70
var b: Int = 40
var c: Int = 100

// condition_1
if (a > b)
{
    // condition_2
    if(a > c)
    {
        println("a is largest");
    }

    else
    {
        println("c is largest")
    }
}

else
{
    // condition_3
    if(b > c)
    {
        println("b is largest")
    }

    else
    {
        println("c is largest")
    }
}
```

2) Write a Scala program to reverse an array of integer values.

```
var nums1 = Array(1789, 2035, 1899, 1456, 2013)
println("Original array:")
for (x <- nums1) {
  print(s"${x}, ")
}
var result1 = test(nums1)
println("\nReversed array:")
for (x <- result1) {
  print(s"${x}, ")
}

def test(nums: Array[Int]): Array[Int] = {
  var temp1 = 0
  var temp2 = 0
  var index_position = 0
  var index_last_pos = nums.length - 1
  while (index_position < index_last_pos) {
    temp1 = nums(index_position)
    temp2 = nums(index_last_pos)
    nums(index_position) = temp2
    nums(index_last_pos) = temp1
    index_position += 1
    index_last_pos -= 1
  }
  nums
}
```

3) Write a Scala code to merge two integer arrays into a third array

```
var IntArray1 = Array(10,11,12,13,14,15)
var IntArray2 = Array(20,21,22,23,24,25)
var IntArray3 = new Array[Int](12)
var count:Int=0
var count1:Int=0

// Merge IntArray1 and IntArray2 into IntArray3.
while(count<12)
{
```

```
if(count<6)
IntArray3(count)=IntArray1(count)
else
{
    IntArray3(count)=IntArray2(count1)
    count1=count1+1
}
count=count+1
}
```

```
println("Elements of merged array:")
count=0
while(count<12)
{
    printf("%d ",IntArray3(count))
    count=count+1
}
```