

**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("Orginal 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
}
```