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

// Scala program to illustrate

// the nested if-else statement

object Test {

// Main Method

def main(args: Array[String]) {

// 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")

}

}

}

}

1. Write a Scala program to remove the character in a given position of a given string. The given position will be in the range 0...string length -1 inclusive.

object scala\_basic {

def test(str: String, n: Int): String =

{

str.take(n) + str.drop(n + 1)

}

def main(args: Array[String]): Unit = {

println("Result: " + test("Scala", 1));

println("Result: " + test("Scala", 0));

println("Result: " + test("Scala", 4));

}

}

1. Write a Scala program to remove a specific element from an given array.

Note: The size of an Array can't be changed, so we can't directly delete elements from an array but replace them with "" / null etc

object Scala\_Array

{

def main(args: Array[String]): Unit =

{

val colors = Array("Red","Blue","Black","Green","White")

println("Original Array elements:")

// Print all the array elements

for ( x <- colors ) {

print(s"${x}, ")

}

println("\nReplace some elements with ''/null etc.:")

colors(0) = ""

colors(3) = null

println("Now the Original Array becomes:")

// Print all the array elements

for ( x <- colors ) {

print(s"${x}, ")

}

}

}

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

object Scala\_Array {

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

}

def main(args: Array[String]): Unit = {

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}, ")

}

var nums2 = Array(1789, 2035, 1899, 1456)

println("\nOrginal array:")

for ( x <- nums2) {

print(s"${x}, ")

}

var result2= test(nums2)

println("\nnReversed array:")

for ( x <- result2) {

print(s"${x}, ")

}

}

}

1. Write a Scala program to create a new array taking the middle element from three arrays of length 5.

object Scala\_Array {

def test(x: Array[Int], y: Array[Int], z: Array[Int]): Array[Int] = {

if (x.length != 5 || y.length != 5 || z.length != 5) throw new IllegalArgumentException("Array length not matched!")

else Array(x(2), y(2), z(2))

}

def main(args: Array[String]): Unit = {

var result1 = test(Array(1,2,3,4,5),Array(2,3,4,5,6),Array(3,4,5,6,7))

// Print all the array elements

println("New array:")

for ( x <- result1 ) {

print(s"${x}, ")

}

}

}