Exp 6: working with variables and strings in scala

class variable{

var num:Int = 1;

println("This is a mutable variable integer using var: "+num);

val num1:Int = 2;

println("This is a immutable variable integer using var: "+num);

var str:String = "This is Ajay";

println("String: "+str);

var (ch:Char, flag:Boolean) = ('A',true);

println("Declaring both variables at once (char and bool): "+ch+" and "+flag);

var result = "Geeks".compareTo("Geeks")

println("Result : " + result)

val val1 = "Hello"

val val2 = "GeeksforGeeks"

result = val1.compareTo(val2)

println("Result : " + result)

}

object Helloworld{

def main(args: Array[String]){

var s = new variable;

}

}

Exp 7: working with conditional statements

object Helloworld{

def main(args: Array[String]){

var a:Int = 70;

var b:Int = 40;

var c:Int = 100;

println("a: "+a+" b: "+b+"c: "+c);

if(a>b){

if(a>c){

println("a is largest: "+a);

}

else{

println("c is largest: "+c);

}

} else{

if(b>c){

println("b is largest: "+b);

} else{

println("c is largest: "+c);

}

}

}

}

Exp 8: working with loops

/\* Online Scala Compiler \*/

object HelloWorld {

def main(args: Array[String]) {

for(w <- 0 to 3; z <- 8 until 10) {

println("The value of w and z is: "+w+" "+z);

}

print("\n")

var rank = 0;

val list = List(52,98,192,45,20);

println("Printing the values from the list: ");

for(rank <- list) {

print(rank+" ");

}

print("\n\n")

println("Using while loop: ");

var index:Int = 0;

while(index < list.length) {

print(index+": "+list(index)+" ")

index+=1;

}

var a = 5;

do {

println("a is: "+a);

a = a-1;

} while(a > 0);

}

}

Exp 9: working with arrays

object HelloWorld {

def main(args: Array[String]) {

var days = Array("sunday","tueesday","wednesday",

"thursday","firday","saturday");

println(s"days(2): ${days(2)}");

print("Array elements are: ")

for(m <- days){

print(m+" ");

}

print("\n\nMulti-dimensional arrays: \n")

val rows = 2;

val cols = 3;

val names = Array.ofDim[String](rows,cols)

names(0)(0) = "karthik";

names(0)(1) = "rahul";

names(0)(2) = "rakesh";

names(1)(0) = "akhil";

names(1)(1) = "anvesh";

names(1)(2) = "anirudh";

for(i <- 0 until rows; j <- 0 until cols){

println(s"($i)($j): ${names(i)(j)}")

}

}

}

Exp 9: working with functions

object HelloWorld{

def main(args: Array[String]) {

def sum(a:Int, b:Int)= a+b;

println("Sum of two numbers: "+sum(10,20));

var result = factorial(5);

println(s"Factorial of 5: $result");

print("\n\n");

if(isPrime(11)){

println("11 is prime");

}else{

print("11 is not prime");

}

}

def isPrime(a:Int):Boolean={

for(i <- 2 until a/2){

if(a%2 == 0)

return false;

}

return true;

}

def factorial(a:Int):Int={

if(a == 0)

0

else if(a == 1)

1

else

a\* factorial(a-1);

}

}