Spark Scala ASSIGNMenT:

Go to terminal:

mescoe@mescoe-Lenovo-S510:~$ start-master.sh

mescoe@mescoe-Lenovo-S510:~$ source ~/.bashrc

mescoe@mescoe-Lenovo-S510:~$ spark-shell

Programs:

1. **helloworld**

scala> print("Hello WOrld")

Hello WOrld

1. **addition**

scala> print(3+4)

7

1. **Largest of 2nos**

scala> :paste

// Entering paste mode (ctrl-D to finish)

object FindLargestEx{

def main(args: Array[String]) {

var num1 = 24;

var num2 = 76;

if( num1 > num2 ) {

println("Largest number is: " + num1);

}

else{

println("Largest number is: " + num2);

}

}

}

// Exiting paste mode, now interpreting.

defined object FindLargestEx

scala> FindLargestEx.main(Array.empty[String])

Largest number is: 76

1. **Sum of 2 nos**:

scala> :paste

// Entering paste mode (ctrl-D to finish)

object SumEx{

def main(args: Array[String]){

var a = 24;

var b = 76;

var sum = a+b;

println("Sum of two numbers is: " + sum);

}

}

// Exiting paste mode, now interpreting.

defined object SumEx

scala> SumEx.main(Array.empty[String])

Sum of two numbers is: 100

**5. Check whether number is prime or not**

scala> :paste

// Entering paste mode (ctrl-D to finish)

object PrimeCheck {

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

print("Enter a number: ")

val num = scala.io.StdIn.readInt()

val isPrime = num > 1 && !(2 until num).exists(num % \_ == 0)

println(if (isPrime) s"$num is Prime" else s"$num is Not Prime")

}

}

// Exiting paste mode, now interpreting.

defined object PrimeCheck

scala> PrimeCheck.main(Array.empty[String])

Enter a number: 9 is Not Prime

**6. Check whether no is odd or even**

scala> :paste

// Entering paste mode (ctrl-D to finish)

object EvenOddCheck {

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

print("Enter a number: ")

val num = scala.io.StdIn.readInt()

println(if (num % 2 == 0) s"$num is Even" else s"$num is Odd")

}

}

// Exiting paste mode, now interpreting.

defined object EvenOddCheck

scala> EvenOddCheck.main(Array.empty[String])

Enter a number: 8 is Even

**7. Printing fibonacci series**

scala> :paste

// Entering paste mode (ctrl-D to finish)

import scala.io.StdIn

object FibonacciSeries {

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

print("Enter the number of terms: ")

val n = StdIn.readInt() // Using StdIn.readInt() after import

var a = 0

var b = 1

print("Fibonacci Series: ")

for (\_ <- 1 to n) {

print(s"$a ")

val temp = a + b

a = b

b = temp

}

println() // For a new line after printing

}

}

// Exiting paste mode, now interpreting.

import scala.io.StdIn

defined object FibonacciSeries

scala> FibonacciSeries.main(Array.empty[String])

Enter the number of terms: Fibonacci Series: 0 1 1 2

scala>

Hadoop link:

https://medium.com/@abhikdey06/apache-hadoop-3-3-6-installation-on-ubuntu-22-04-14516bceec85