

Lab 1

```
[anushaje20201863@cxln5 ~]$ scala
```

```
Welcome to Scala 2.11.8 (OpenJDK 64-Bit Server VM, Java 1.8.0_212).
```

```
Type in expressions for evaluation. Or try :help.
```

Adding to numbers

```
scala> 2 + 4
```

```
res0: Int = 6
```

Result is res0 and data type in integer

Typing result res0 also prints the output

```
scala> res0
```

```
res1: Int = 6
```

Assigning a variable x = 10 and getting the results

```
scala> var x = 10
```

```
x: Int = 10
```

Multiplication

```
scala> var y = x * 4
```

```
y: Int = 40
```

Using print and string

```
scala> print("Hello, World!")
```

```
Hello, World!
```

Character use single quotes

```
scala> var a = 'h'
```

```
a: Char = h
```

Import functions

```
scala> import math._
```

```
import math._
```

Finding squareroot

```
scala> sqrt(25)
```

```
res3: Double = 5.0
```

Compute interest, given principal, rate and duration

```
scala> var principal = 10
```

```
principal: Int = 10
```

```
scala> var principal = 10
```

```
principal: Int = 10
```

```
scala> var rate = 10
```

```
rate: Int = 10
```

```
scala> var duration = 4
```

```
duration: Int = 4
```

```
scala> var interest = principal * rate * duration / 100
```

```
interest: Int = 4
```

Change the value of principal to 100 and compute interest

```
scala> var principal = 100
```

```
principal: Int = 100
```

```
scala> var interest = principal * rate * duration / 100
```

```
interest: Int = 40
```

Defining a method simpleInterest

```
scala> def simpleInterest(principal: Int, rate: Double, duration: Int): Double = {  
  | var interest = principal * rate * duration / 100;  
  | return interest;  
  | }
```

```
simpleInterest: (principal: Int, rate: Double, duration: Int)Double
```

```
scala> simpleInterest(700, 7, 4)
```

```
res0: Double = 196.0
```

```
scala>
```