# Report for Weekly Assignment (2154882)

## Principles of Programming -Week1

## Exercise 1

Text

Description automatically generated

This is the initial program on the assignment question sheet. First, we print the “Hello World!”. To do this we create as class with name Helloworld and the class was created with the name of HelloWorld. Then main function (a reusable portion of a program, sometimes called a procedure) was called with the print method to print the String text. Then we get the output:



Exercise 2 Report: Text

Description automatically generated

In the above java program, There is a class defined as MiniCalc. Then we declare variable using ‘int’. ‘int’ is used to declare variables.

Text

Description automatically generated

Here several functions and operators (symbols for performing specific operations, and calculations) were used

Text

Description automatically generated

Then main function was called with the print method with appropriate text “MiniCalc”. And the new object was created with object name (a member in java class that has a behavior, entity, or a state) named “mc”. [MiniCalc mc = new MiniCalc ();]. The new object will execute the constructor method in the main function. And the ‘System.out.println’ function is used to print the output.

Lastly the output will be following:

Text

Description automatically generated

## Exercise 3



Created a class named VolumeConversion.



Then, main Function was called.

Graphical user interface, text

Description automatically generated

Two variables are created with required datatype and assigned a constant value as literals.



Then the conversion function was created with appropriate variable.



Output print function was executed for result with texts. Finally, after running the program in terminal, we get the following output:



## Exercise 4

A screenshot of a computer

Description automatically generated with medium confidence

Created a class for object named (marks) which will have many functions in it to be created. Inside the Class, Defined variables with datatype int and name. Assigned the given values as constants. Then, main function was called. Inside the main function we created the variable for total sum of the created variable inside the class. The total sum was assigned with the addition operator function of the variables. Similarly, for the average marks, variable was created with average operation. Lastly, the print function was called with appropriates text for the output of all marks, total sum, and average marks.

And the program was run to get the following output.

A picture containing text, road, black

Description automatically generated

## Exercise 5:

Text

Description automatically generated

In this program we created the java program for multiplying the two long numbers. Firstly, we created the class with the name “Multiply”. Inside That Class We defined the variables with appropriate datatype “long”. And assigned the given value as constants. Also defined the multiply function with variable name and multiplying operation inside the Class. After that, main function was called with Print Function inside it. Finally, we get the following output as result.

