

Programming Foundations

Lab 1 Part 2: Variables, operators, expressions and statements

Write a python program for each of the following tasks:

- i. To prompt the user to enter his name and greet him

```
Enter your first name: Mike
Hello, Mike!
```

- ii. To add two numbers using the input function and display their product, sum, difference and quotient
- iii. To prompt the user to enter a number and calculate its square
- iv. To convert meter to centimeter
- v. To convert kg to grams
- vi. To convert kilometers to miles (conversion factor=0.621371)
- vii. To convert dollars to Mauritian rupees
- viii. To prompt the user for number of hours worked and rate per hour. The program should compute and display the gross pay
- ix. To prompt the user to enter 3 test scores and calculate the total and average score.

```
The Test Scores program

Enter 3 test scores
=====
Enter test score: 75
Enter test score: 85
Enter test score: 95
=====
Total Score: 255
Average Score: 85

Bye
```

- x. To prompt the user to enter the length and width of a plot of land. To calculate the area and perimeter of the land.

```
The Area and Perimeter program

Please enter the length: 25
Please enter the width: 10

Area = 250
Perimeter = 70

Thanks for using this program!
```