

### Course Work (lab)

Q1) Write a Python program that prompts the user to enter a student mark, and decides whether it is pass or failure.

Q2) Write a Python program that input two integers N and M and output  $M^N$

Hint: Don't use the \*\* operator, use for loop

Q3) Write a program to calculate the following:

$$A = \sum_{x=1}^{10} X^2$$

Q4) Write a Python program that prints the odd numbers from 1 to 100.

Hint: using while statement

Q5) Write a Python program that enter some integer numbers from the input stream and print each number with a message showing if it is positive or negative. The program terminates "stop running" when the last number is zero "0". Hint: using while statement

Q6: Write a Python program that inputs six grades for student and output

- a. The grades summation for each student
- b. The grades average for each student

Q7: Write a Python program that finds a prime numbers between 1 to 100.

Hint: an even number is a prime if it is 2. An odd integer is prime if it is not divisible by any odd integer less than or equal to the square root of the number.

Q8: Write a Python function to check whether a number is in a given range.