**USKUDAR UNIVERSITY**

**FACULTY OF ENGINEERING AND NATURAL SCIENCES**

**DEPARTMENT OF SOFTWARE ENGINEERING**

**SE 101 INTRODUCTION TO SOFTWARE ENGINEERING**

**LAB SHEET 4**

**Exercise 1**

Write a C code that takes an integer between 1 and 10000 from the user and then finds out if this integer is a prime number or not.

**Exercise 2**

Write a C code that will print the following output:

**0 1**

**1 3**

**2 9**

**3 27**

**4 81**

**5 243**

Note: you have to use loops!

**Exercise 3**

Write a C code that will print out the following pattern using nested for loops

XXXX

XXXX

XXXX

**Exercise 4**

Write a C code that will print out the following pattern using nested for loops

X

XX

XXX

XXXX

**Exercise 5**

Write a C code that will print out the following pattern using nested for loops

XXXX

OOOO

XXXX

OOOO

XXXX

**TRY AT HOME**

Write a C code that will print out the following pattern using nested for loops

\_ \_ \_ \_ X

\_ \_ \_ XX

\_ \_ XXX

\_ XXXX

XXXXX

Write a C code that will print out the following pattern using nested for loops

OXXX

XOXX

XXOX

XXXO

Write a C code that will print out the following pattern using nested for loops

X

XXX

XXXXX

XXXXXXX