

Lab Work12(Nested loop structures)

Objectives: This lab work aims to test your understanding of "Nested loop structures" and practice on programming some problems with different loop statements in the lab hours during this week.

Q1: Write a program that prints the following figure by printing one "*" each time. Use nested loops.

```
*****
****
***
**
*
```

Q2: Write a program that prints the following figure by printing one "*" or "\$" each time. Use nested loops.

```
*$$$$
**$$$
***$$
****$
```

Q3: Write a program that input six grades for six students and output

- The grades summation for each student
- The grades average for each student
- The summation and average for all students

Home Work:

Q1: Write a program that prints the following figure. Use nested loops.

```
12345
12345
12345
```

Q2: Write a program that prints the following figure. Use nested loops.

```
  *
 ***
*****
*****
```

Q3: Write a C++ 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.