

Programming with C

Assignment 5

Due: Next Section.

Notes: This assignment is individual assignment, every student should complete it by himself.

1. (2.5 points) Write a program to print the Odd integer numbers between 1 and 100 using “While loop”.
2. (2.5 points) Repeat program 1 with “For loop”.
3. (5 points) In mathematics, the Fibonacci numbers are the numbers in the following integer sequence: 0, 1, 1, 2, 3, 5, 8, 13,...,etc. Where every number $n_i = n_{(i-1)} + n_{(i-2)}$. Write a program that asks the user to type an integer number n, to print the first n Fibonacci numbers starting from 0. The output should look as following:

```
Enter n: 7
0 1 1 2 3 5 8
```

4. (5 Points) Write a program that asks the user to type number of lines n, and print pyramid of n lines using * as following:

```
Enter the no. of lines: 5
      *
     ***
    *****
   *********
  ***********
 *****
```

5. (5 points) Write a program to print Prime numbers between 1 and 100. Note that: A prime number is a natural number greater than 1 that has no positive divisors other than 1 and itself.