Programming Fundamentals

Assignment – Week 8

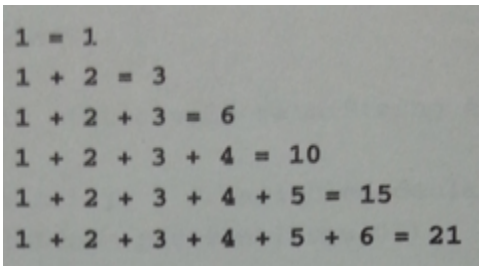
Exercise 1

Generate the pattern

Sample Run:

Input number : 6

Output



Exercise 2

Write a program all_digits_odd.cpp that determines whether every digit of a given positive integer is odd. Print true if the number consists entirely of odd digits (1, 3, 5, 7, 9) and false if any of its digits are even (0, 2, 4, 6, 8).

For example, • **On input 135319**, the output should be **true.**

• **On input 9145293**, the output should be **false.**

Keep asking the user for input until user input is -1.

Exercise 3

Write a program that converts a hexadecimal digit into a decimal value. (with the help of ASCII Value)

Input: Enter Hex Char: A **Output:** Decimal number is **10**	**Input:** Enter Hex Char: F **Output:** Decimal number is **15**	**Input:** Enter Hex Char: 7 **Output:** Decimal number is **7**

Exercise 4

Input :

Enter number : 5

Output

```
****1
***121
**12321
*1234321
123454321
```