

**Lab 1**

# **INTRODUCTION**

**Lecturer: Hussien Omer AL \_ Baiti**

# What is programming ?

---

- Set of instructions and commands that perform tasks .



# Programming is difficult ? Why ?



# Algorithms

---

- set of steps for solving a problem or accomplishing a task.

- **How write algorithms :**

Use any of three following types:

- ✓ Natural Language

- ✓ Pseudo code

- ✓ Flow chart

# Exercise 1

---

Write a program to sum two numbers .



# Natural Language

---

1. Start
2. Read the numbers ( num 1 , num 2 )
3. Summation (num 1 with num 2 )
4. Print the result
5. End

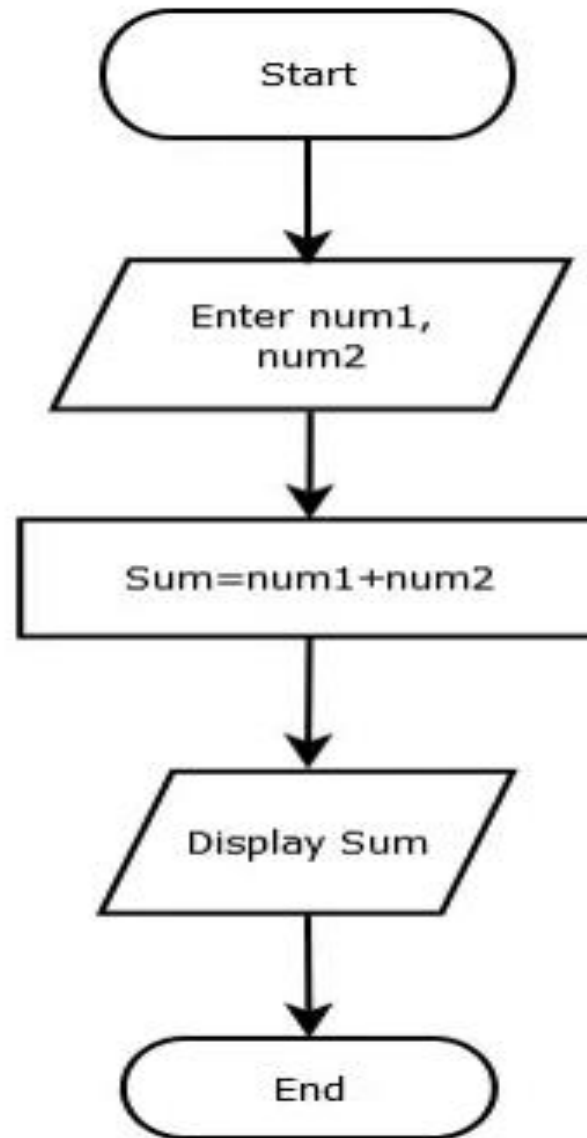
# Pseudo code

---

1. Start
2. Read num 1 , num 2
3.  $\text{sum} = \text{num } 1 + \text{num } 2$
4. Print sum
5. End

# Flow chart

---





## Exercise 2

---

Write a program to sum two numbers one of them is 5 .



# Pseudo code

---

1. Start
2. Read num 1
3. init num 2 = 5
4.  $\text{sum} = \text{num } 1 + \text{num } 2$
5. Print sum
6. End

1. Start
2. Read num 1
3.  $\text{sum} = 5 + \text{num } 1$
4. Print sum
5. End

GOOD

LUCK

