# **Chapter - 23 Control flow Input and Print functions**

#### **Lesson Objective**

- Types of Control flow
- If statement

Skills to be attained: Knowing the variables, values and data types used in a program

#### **Tools / Websites / Resources:**

- 1. <a href="https://www.onlinegdb.com//">https://www.onlinegdb.com//</a>
- 2. gedit text editor in Hitech lab

#### **Teacher Led Instruction**

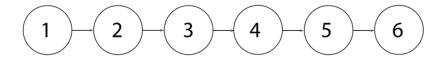
#### What is Control flow?

Control flow is the sequence in which a program runs actions. There are three main types of control flow.

- 1. Sequential flow (execution of statements one after another)
- 2. Branching flow (conditional execution using if/else statements)
- 3. Looping flow (repeated execution using for/while loops)

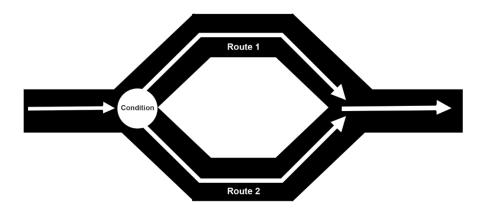
#### **Sequential flow**

Doing tasks one after another. The process flows one by one continuously.



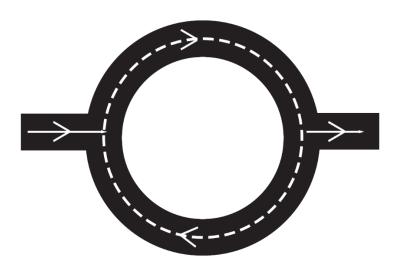
### **Branching flow**

In branching flow, Depending on the condition, the execution flow will follow either Route 1 or Route 2.



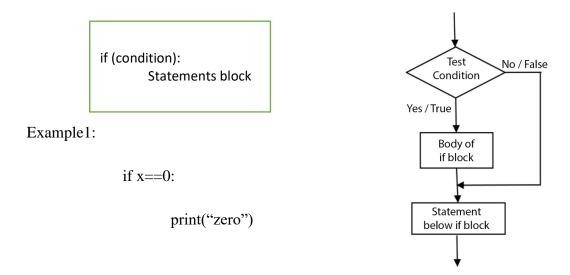
# Looping flow

In looping flow, specific actions will be executed repeatedly, a certain number of times. After completing the actions the specified number of times, the process exits the loop.



# **Simple If statement**

In Python, an if statement runs a block of code only if a condition is true. If the condition is false, the code is skipped. Here's the basic structure of how it works.



**Example 1**: If the value of x is 0, we get "zero" as

output.

**Example 2 :** Write a python code to check given number is greater than 10.

Python code.

### Activity in offline compiler.

1. Write a python program to check the eligibility of voting. (Age > 18)

2. Write a python program to check whether the given number is even ( num%2)