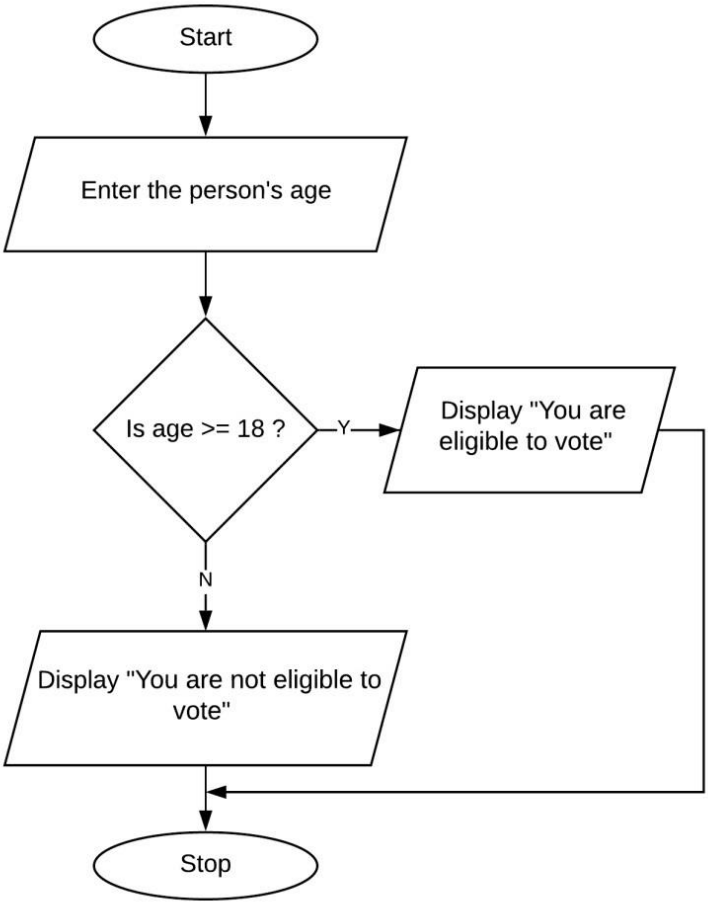
Chapter 3: Algorithmic Intelligence

1. Multiple Conditions in a Program
Definition:
A program can make decisions based on more than one condition using logical operators like AND, OR, or nested if statements.

Algorithm
Step 1: Start
Step 2: Accept the age of the person.
Step 3: If age is greater than or equal to 18, then display 'You are eligible to vote'.
Step 4: If age is less than 18, then display 'You are not eligible to vote'.
Step 5: Stop



2. Loops in a Program
Loops are used to repeat a block of code multiple times.

2.1 Counting Loops
Definition:
Loops that repeat a specific number of times, often using for loops.
Example (Python):

```
for i in range(5):
    print("Count:", i)
```

Use Case:

- Printing numbers from 1 to 10
- Repeating an action for a set number of times

2.2 Conditional Loops
Definition:
Loops that continue running **until** a condition becomes false, usually using while loops.
Example (Python):

```
count = 1
while count <= 5:
    print("Count:", count)
    count += 1
```