

Title: Creating an Algorithm to Check if a Number is Positive or Negative Using General Language, Pseudocode, and Flowchart

Description: In this scenario, you will create an algorithm to check if a number is positive or negative, introducing the concept of conditional logic. You'll write the algorithm in simple language, convert it into pseudocode, and visually represent it using a flowchart.

Purpose: The purpose of this activity is to help you understand how to Practice using conditional statements in pseudocode to make simple decisions. Develop skills in creating a flowchart that visually represents conditional logic, which is a foundational concept in coding and programming.

Steps:

1. Understand the Task:

- The task is to read a number from the user and determine if it's positive or negative.

2. Writing the Algorithm in **General Language** (English):

- **Step 1:** Start
- **Step 2:** Read or input a number (Number).
- **Step 3:** Check if the number is greater than 0.
 - If yes, the number is positive.
- **Step 4:** If the number is not greater than 0, check if it is less than 0.
 - If yes, the number is negative.
- **Step 5:** If the number is neither greater than nor less than 0, it must be 0.
- **Step 6:** Display whether the number is positive, negative, or zero.
- **Step 7:** End.

3. Writing the Algorithm in **Pseudocode**:

- Now, You will translate these steps into pseudocode, using basic coding structures to represent conditional checks:

```
START
  INPUT Number
  IF Number > 0 THEN
    DISPLAY "Positive"
  ELSE IF Number < 0 THEN
    DISPLAY "Negative"
  ELSE
    DISPLAY "Zero"
  ENDIF
END
```

4. Drawing the Flowchart:

You will now create a flowchart to visualize this logic, using symbols.

- **Start:** Begin the flowchart with a "Start" symbol.
- **Input Number:** Use an "Input" symbol to prompt for a number.
- **Decision:** Use a "Decision" symbol to check if the number is greater than 0.
 - **If True:** Display "Positive."
- **Second Decision:** If the first check is false, use another "Decision" symbol to check if the number is less than 0.
 - **If True:** Display "Negative."
- **Else:** If neither condition is met, the number must be zero, so display "Zero."
- **End:** Conclude the flowchart with an "End" symbol.

Flowchart Representation

