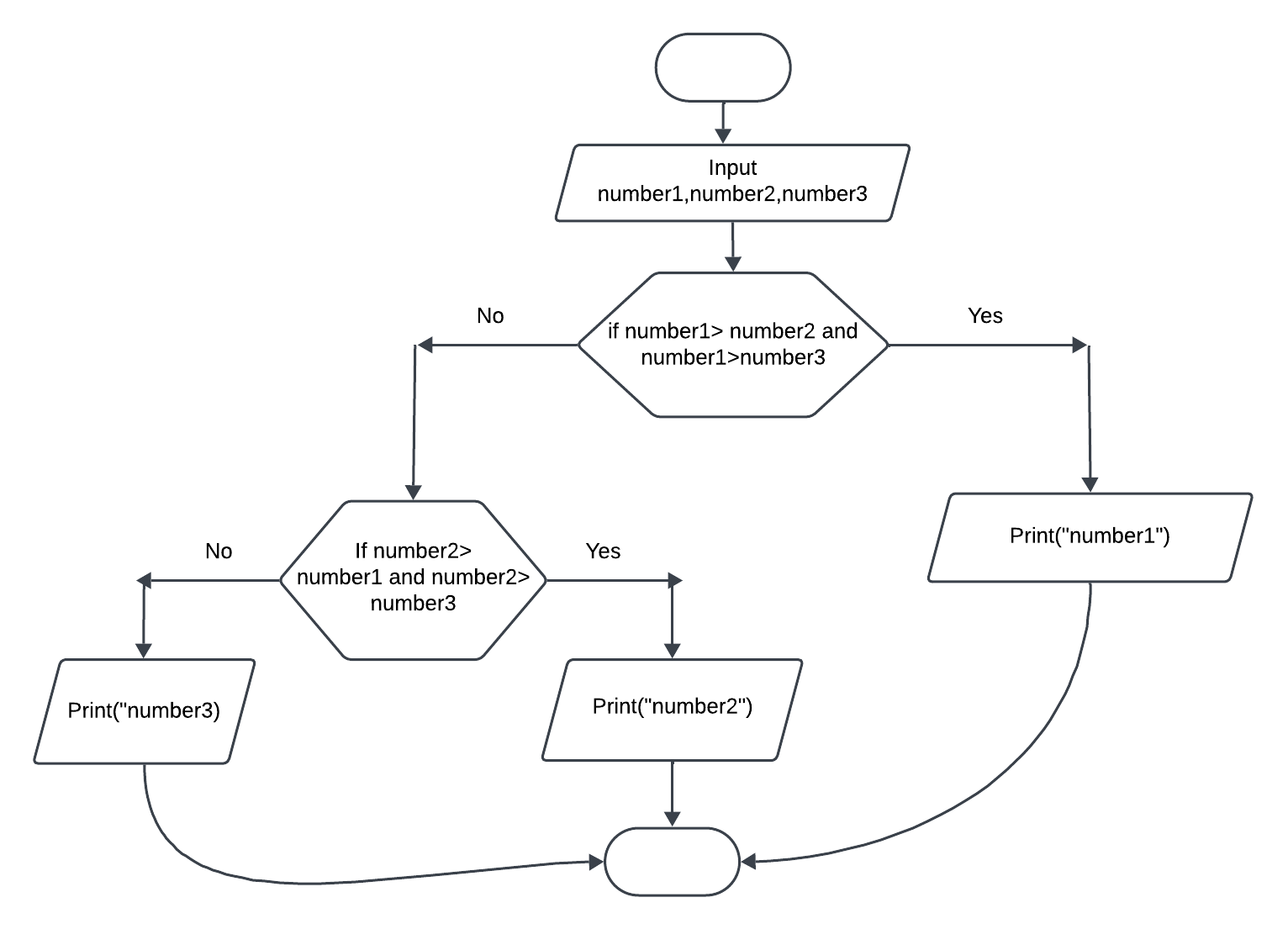
**Programming - Lab Sheet 01 - B24  
Name:Amjath Sahee  
Submission Date:08.02.2025**

**1.  
(Pseudo code)  
START  
INPUT: number1,number2,number3  
IF number1> number2 and number1>number3 THEN  
 PRINT(“Laegest number is number1”)  
ELSE IF number2> number1 and number2>number3 THEN  
PRINT(“Largest number is number2”)  
ELSE  
PRINT(“Largest number is number3”)  
END IF  
END  
  
Flowchart:  
  
2.Pseudocode:**

**Start**

**Input a number: n**

**Initialize factorial = 1**

**For i from 1 to n:  
 factorial = factorial \* i**

**Print("Factorial of n is factorial")**

**End  
  
3.Pseudocode:**

**1. Start**

**2. Input a number: n**

**3. If n <= 1:**

**Print ("Not a prime number")**

**Else:**

**Initialize is\_prime = True**

**For i from 2 to sqrt(n):**

**If n % i == 0:**

**is\_prime = False**

**Break**

**If is\_prime:**

**Print ("Prime number")**

**Else:**

**Print ("Not a prime number")  
4. End**

**4. Pseudocode:**

**1. Start**

**2. Input hourly pay rate: rate**

**3. Input hours worked: hours**

**4. If hours <= 40:**

**regular\_pay = hours \* rate**

**overtime\_pay = 0**

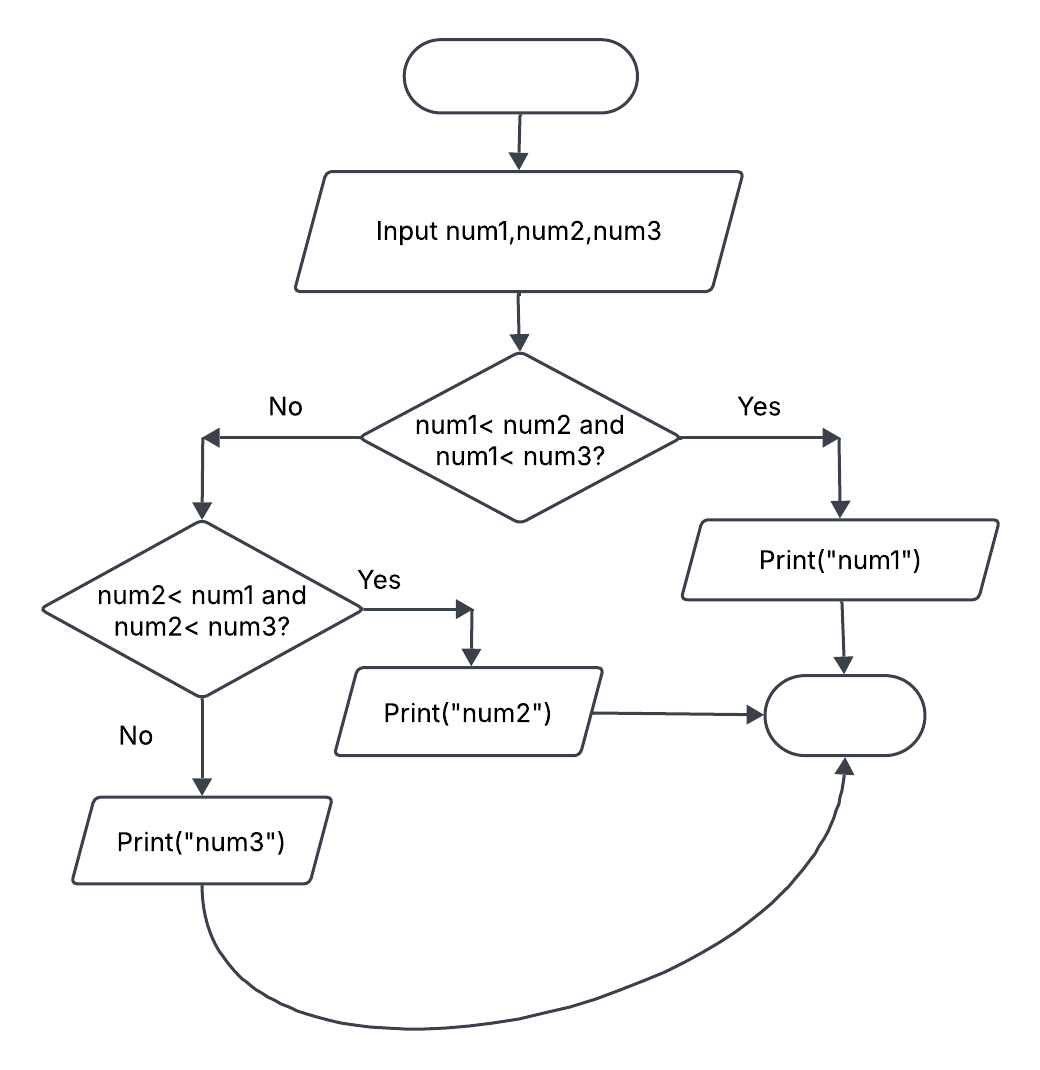
**Else:**

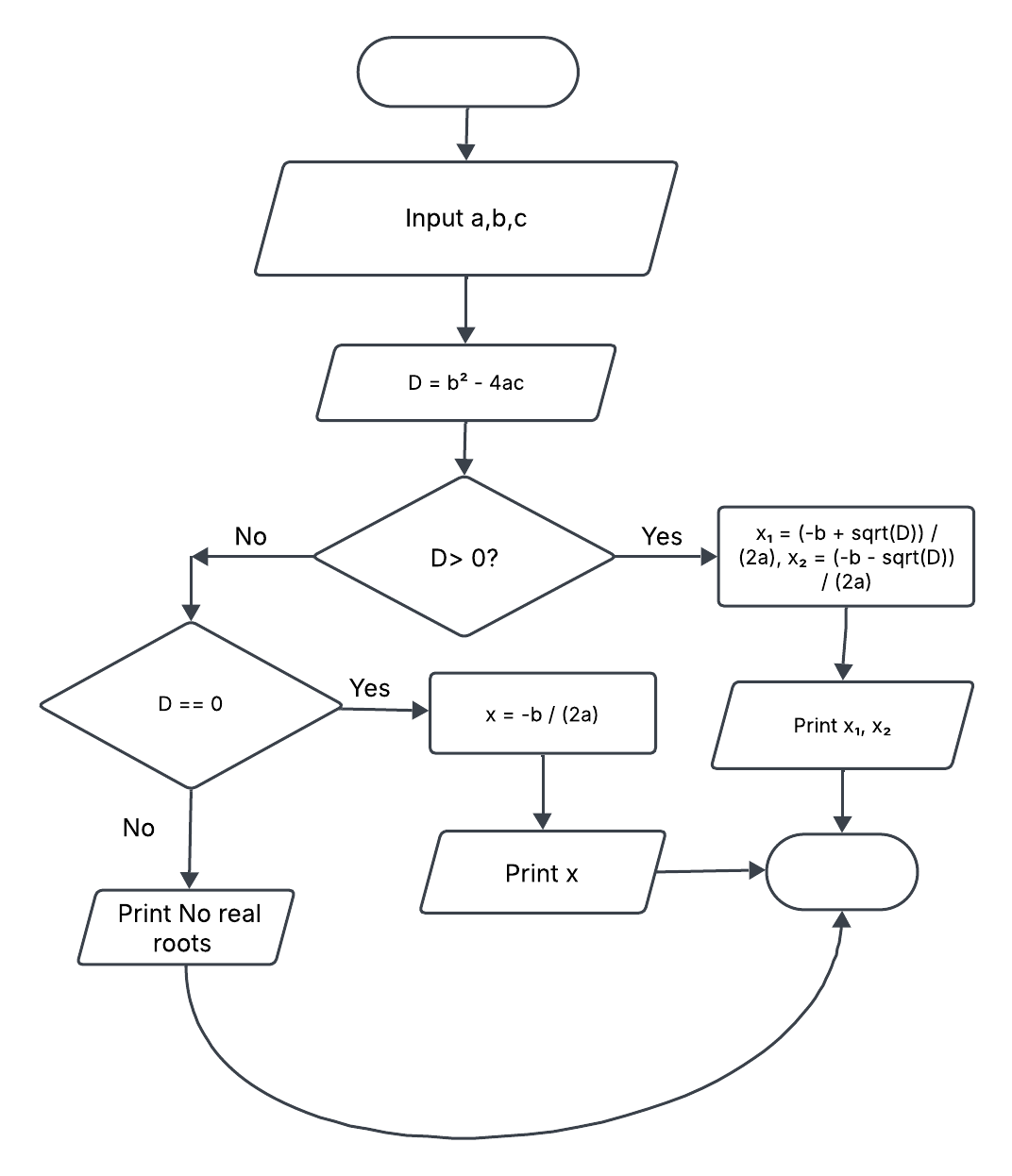
**regular\_pay = 40 \* rate**

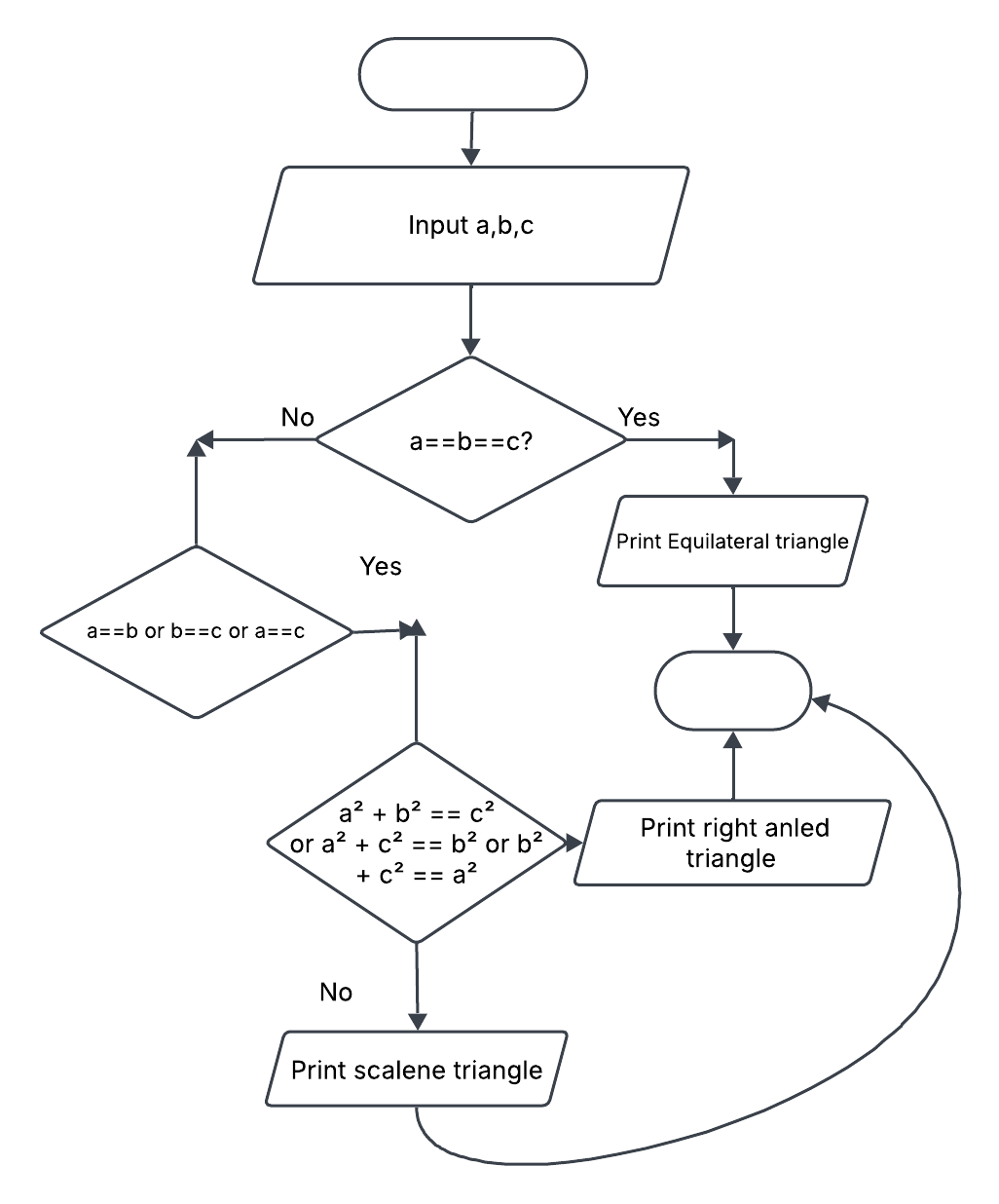
**overtime\_pay = (hours - 40) \* rate \* 1.5**

**5. gross\_pay = regular\_pay + overtime\_pay**

**6. Print ("Gross pay is gross\_pay")**

**7. End  
  
5. Flowchart:  
**

**6. Flowchart  
**

**7.  
**

**8. Pseudocode:  
  
1. Start**

**2. Input year: y**

**3. If (y % 4 == 0 and y % 100 != 0) or (y % 400 == 0):**

**Print "Leap year"**

**Else:**

**Print "Not a leap year"**

**4. End**