Pseudocode for Finding the Maximum of Three Numbers
 START

INPUT Num1, Num2, Num3

IF Num1 >= Num2 AND Num1 >= Num3 THEN

Max = Num1

ELSE IF Num2 >= Num1 AND Num2 >= Num3 THEN

Max = Num2

**ELSE** 

Max = Num3

**END IF** 

PRINT "The maximum number is: ", Max

**END** 

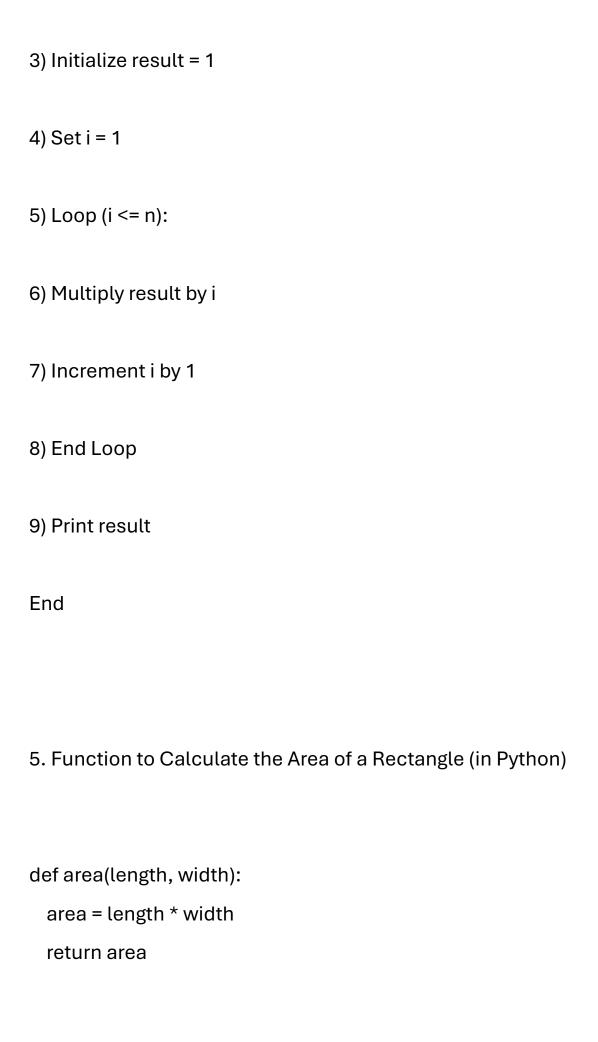
2. Compare and Contrast Two Programming Languages:

Python:

Strengths: Easy to learn, versatile, extensive libraries.

Weaknesses: Slower performance, dynamic typing issues.

Java:
Strengths: Faster performance, strong typing, portability.
Weaknesses: Verbose syntax, steeper learning curve.
3. Compilation vs Interpretation:
Compilation:
* Converts the entire code to machine code before execution.
* Faster execution, early error detection.
Interpretation:
* Translates and executes code line-by-line at runtime.
* Easier debugging, slower execution.
4. Flowchart for Calculating Factorial.
1) Start
,
2) Input number (n)



```
length = float(input("Enter the length of the rectangle: "))
width = float(input("Enter the width of the rectangle: "))
result = area(length, width)
print(f"The area of the rectangle is: {result}")
```