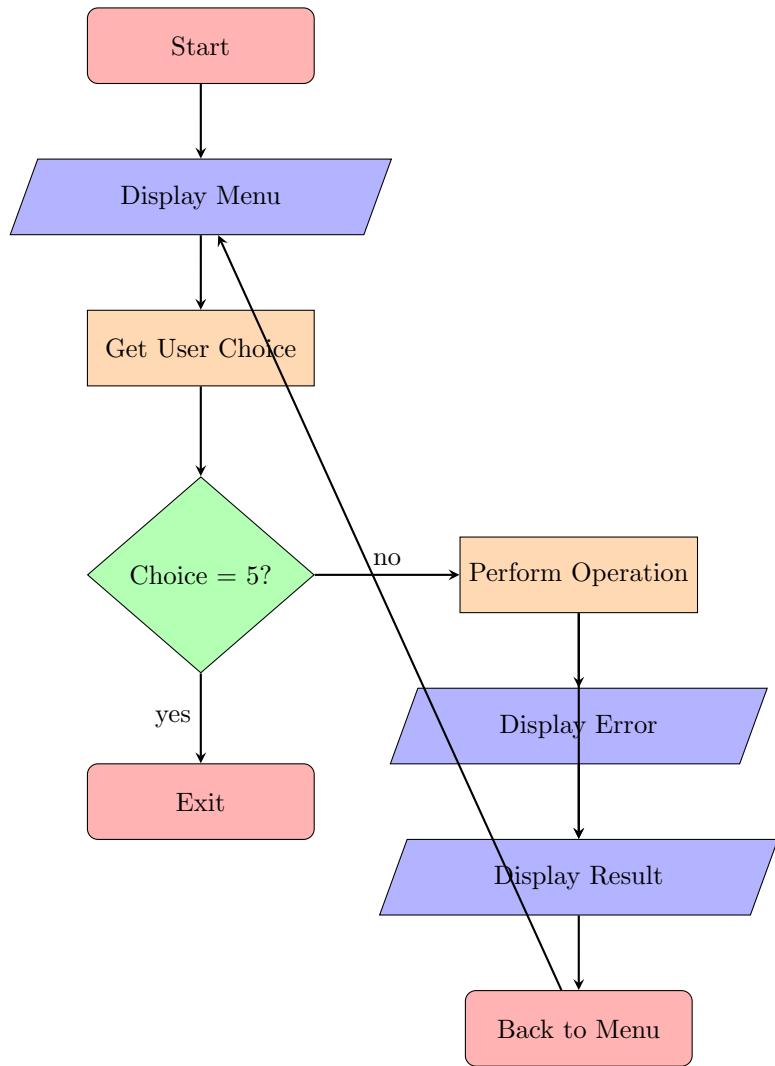


Flowchart and Pseudocode for Python Calculator

Flowchart



Pseudocode

Algorithm 1 Python Calculator Pseudocode

```
1: Function add(x, y)
2:     Return x + y
3: Function subtract(x, y)
4:     Return x - y
5: Function multiply(x, y)
6:     Return x * y
7: Function divide(x, y)
8: if y = 0 then
9:     Return "Cannot divide by zero!"
10: else
11:     Return x / y
12: end if
13:
14: Function calculator()
15:     Print "Welcome to the Python Calculator!"
16: while True do
17:     Print "Choose the operation you'd like to perform:"
18:     Print "1. Add (+), 2. Subtract (-), 3. Multiply (*), 4. Divide (/), 5. Exit"
19:     Input choice
20:     if choice = 5 then
21:         Print "Goodbye!"
22:         Break
23:     end if
24:     if choice ∈ [1, 2, 3, 4] then           Input num1, num2
25:         if choice = 1 then
26:             result = add(num1, num2)
27:         else if choice = 2 then
28:             result = subtract(num1, num2)
29:         else if choice = 3 then
30:             result = multiply(num1, num2)
31:         else if choice = 4 then
32:             result = divide(num1, num2)
33:         end if
34:         Print "The result is: " + result
35:     else
36:         Print "Invalid input, please select a valid option."
37:     end if
38: end while
```
