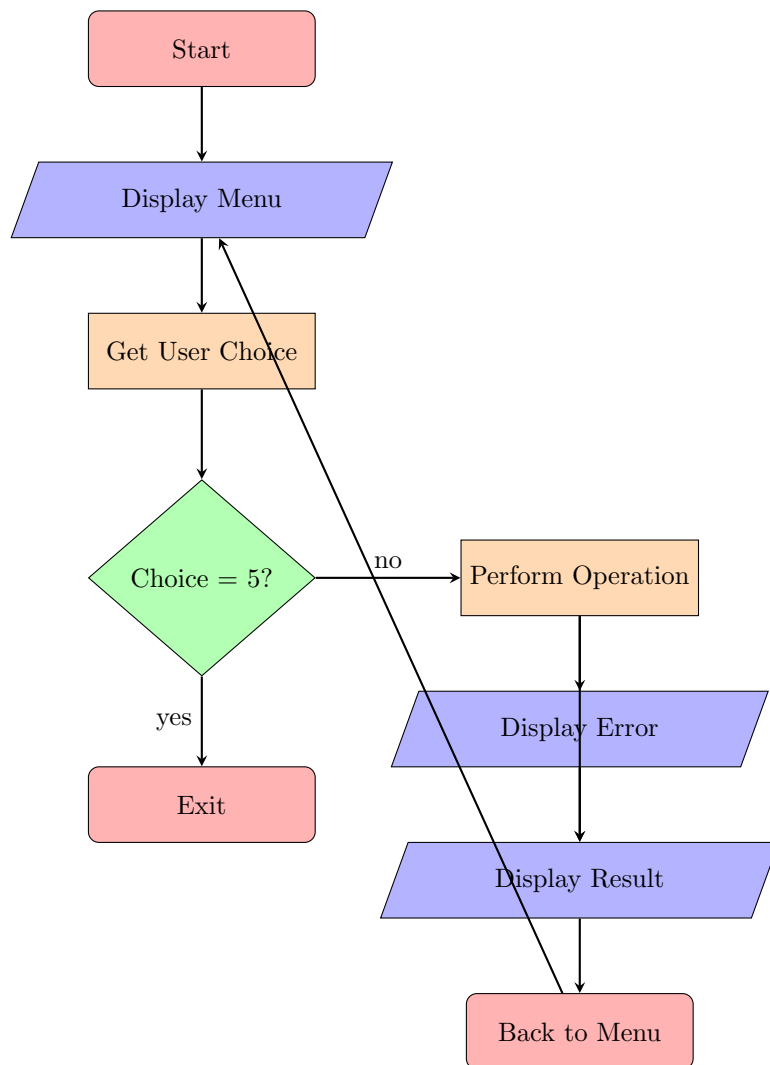


Flowchart and Pseudocode for Python Calculator

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
19:     (/), 5. Exit"
20:     Input choice
21:     if choice = 5 then
22:         Print "Goodbye!"
23:         Break
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
39: end while
```
