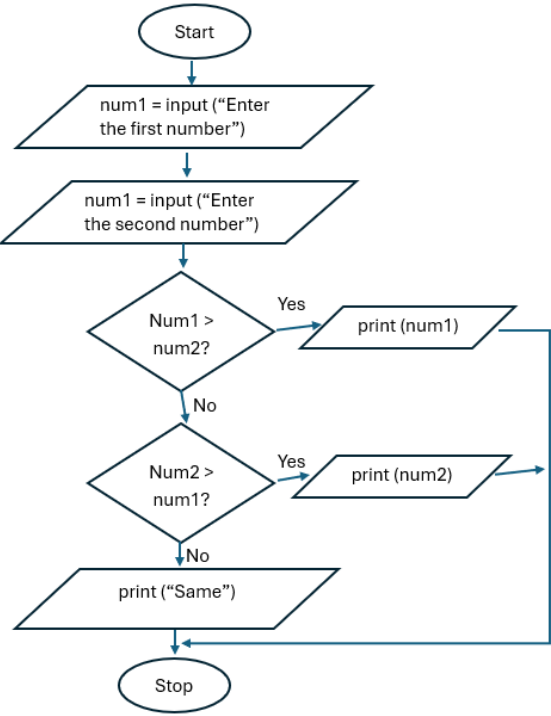
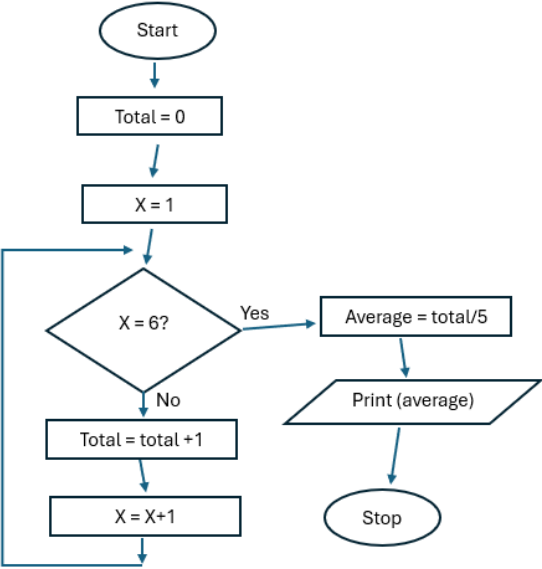
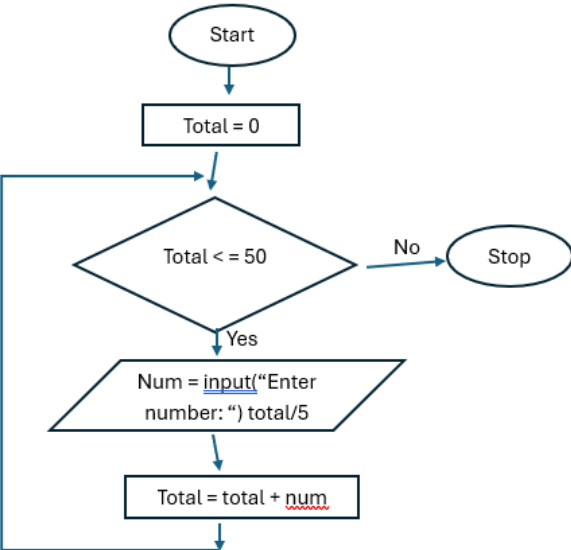


Gist Algorithms – Basic Constructs

Flow chart	Pseudo code using OCR Reference Language	Python code
SELECTION  <pre> graph TD Start([Start]) --> Input1[/num1 = input ("Enter the first number")/] Input1 --> Input2[/num2 = input ("Enter the second number")/] Input2 --> Decision1{Num1 > num2?} Decision1 -- Yes --> Print1[/print (num1)/] Decision1 -- No --> Decision2{Num2 > num1?} Decision2 -- Yes --> Print2[/print (num2)/] Decision2 -- No --> Print3[/print ("Same")/] Print1 --> Stop([Stop]) Print2 --> Stop Print3 --> Stop </pre>	<pre> num1 = input ("Enter the first number") num2 = input ("Enter the second number") if num1 > num2 then print(num1) elseif num2 > num1 then print(num2) else print("Same") endif </pre>	<pre> num1 = int(input("Enter first number")) num2 = int(input("Enter second number")) if num1 > num2: print (num1) elif num2 > num1: print (num2) else: print ("Same") </pre>

Flow chart	Pseudo code using OCR Reference Language	Python code
ITERATION (Repeat)  <pre> graph TD Start([Start]) --> Total0[Total = 0] Total0 --> X1[X = 1] X1 --> X6{X = 6?} X6 -- Yes --> Avg[Average = total/5] Avg --> Print[/Print (average)/] Print --> Stop([Stop]) X6 -- No --> TotalPlus[Total = total + 1] TotalPlus --> Xplus[X = X + 1] Xplus --> X6 </pre>	<pre> for i = 1 to 10 ... next i total = 0 for x = 1 to 5 number = input ("Enter a number") total = total + number next x average = total / 5 print(average) </pre>	<pre> total = 0 for x in range(1,6): number = int(input("Enter number: ")) total = total + number average = total/5 print (average) </pre>
ITERATION (Repeat)  <pre> graph TD Start([Start]) --> Total0[Total = 0] Total0 --> TotalLE50{Total <= 50} TotalLE50 -- No --> Stop([Stop]) TotalLE50 -- Yes --> Input[/Num = input("Enter number:") total/5/] Input --> TotalPlus[Total = total + num] TotalPlus --> TotalLE50 </pre>	<pre> while (i != 11) ... endwhile total = 0 while total <= 50 num = input ("Enter number") total = total + num endwhile </pre>	<pre> total = 0 while total <= 50: num = int(input("Enter number ")) total = total + num </pre>