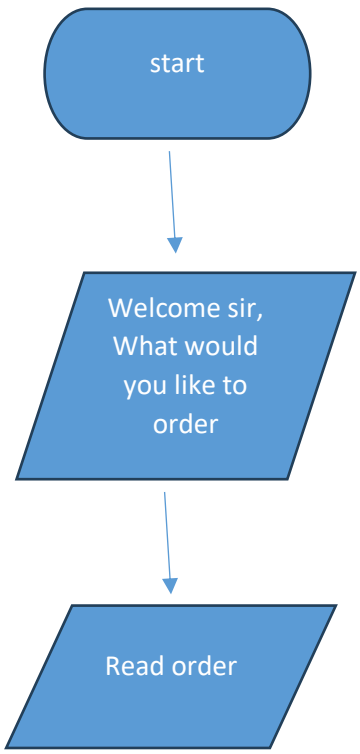
1. Design a flowchart, Pseudocode, Algorithm for processing a customer order at a restaurant, including handling special requests (Like add on).

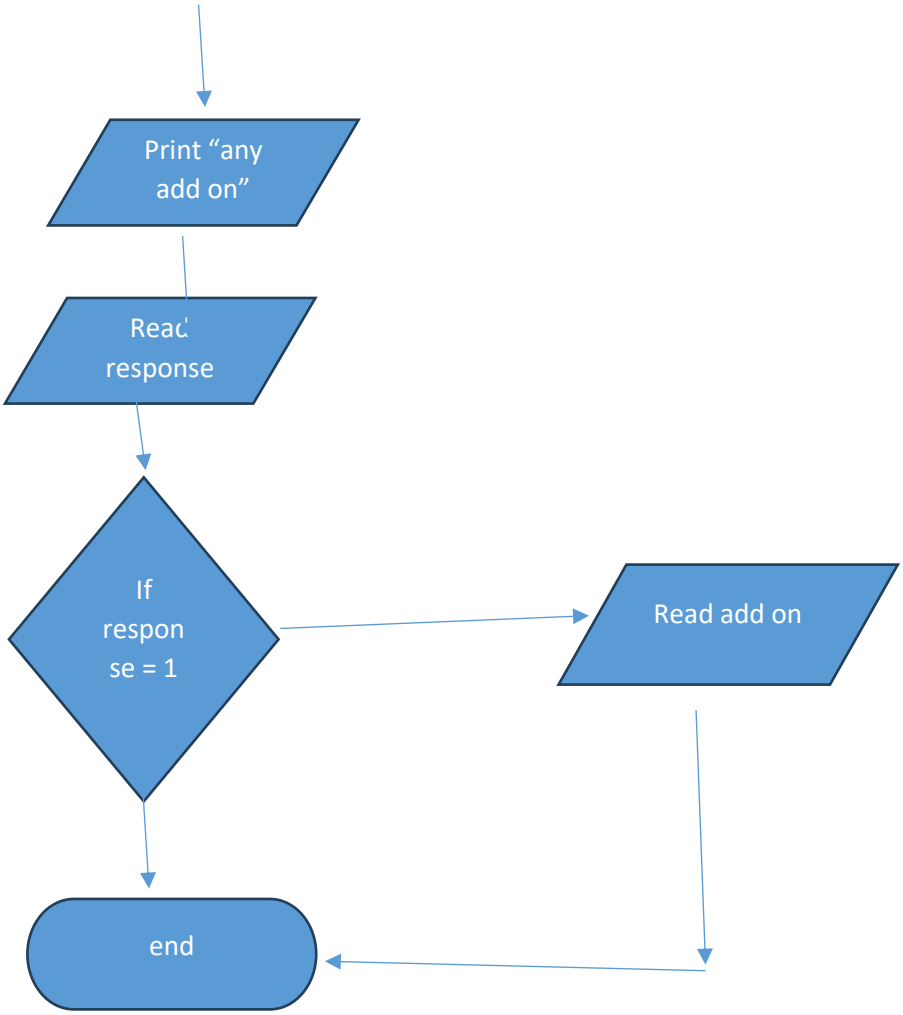
Pseudocode:

1. Start
2. Print “Welcome to ABC Restaurant, what would you like to order”
3. Read Customer Order
4. Print “Any Add on.”
5. Read Response
6. If response ==1 then
    a. Read Customer Add on
    b. Final order= Customer order + Customer add on
7. End if
8. Final Order=Customer order
9. Print Final order
10. End

Algorithm:

1. Display a welcome message to customer and ask for the order
2. Read customer order
3. Ask customer for any add ons/Modification
4. Take customer response
5. If response is 1 then read any add on
6. Print the final order
7. If response is 0 then end the program





2. Design a flowchart, Pseudocode, Algorithm for handling a customer's deposit transaction at a

bank, including checks for account validity and deposit amount conditions.

Pseudocode:

Start

Print “Please Enter your Pin”

Read Pin

While Pin != valid

    Read Pin

End while

Print “Enter Amount to Withdraw”

Read Amount

If Amount > Bank Balance

Then print “ Insufficent Bank balance”

Else

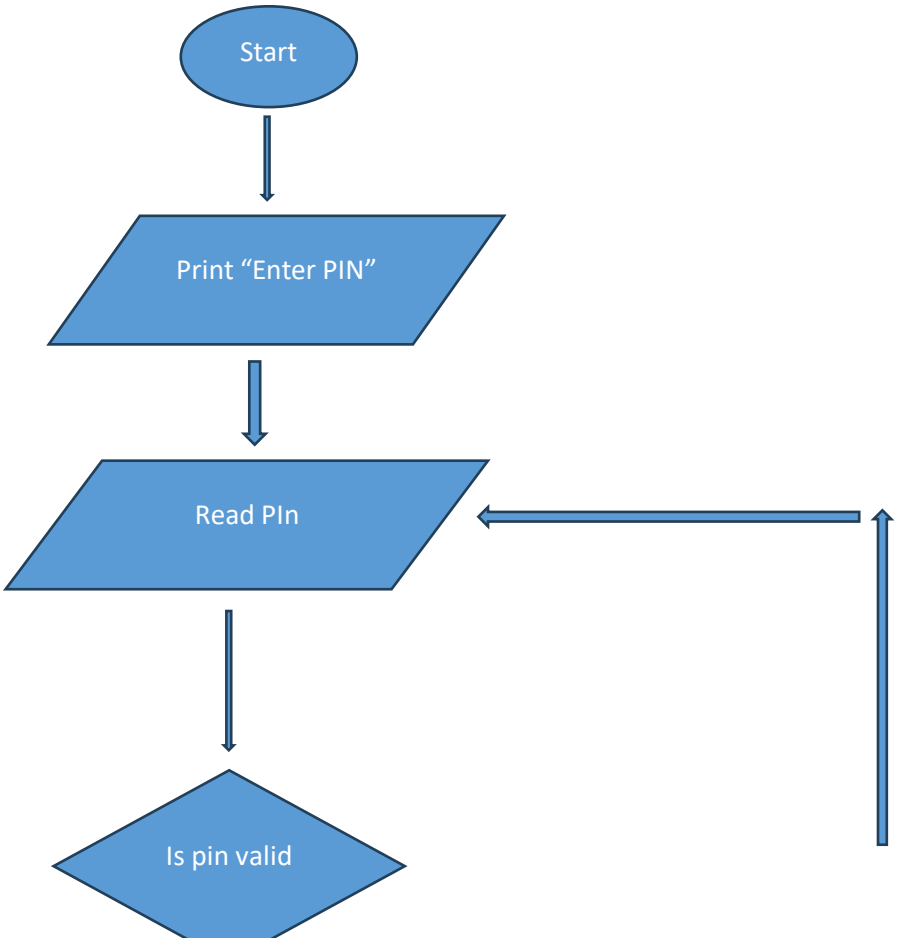
Bank balance = bank balance- Amount

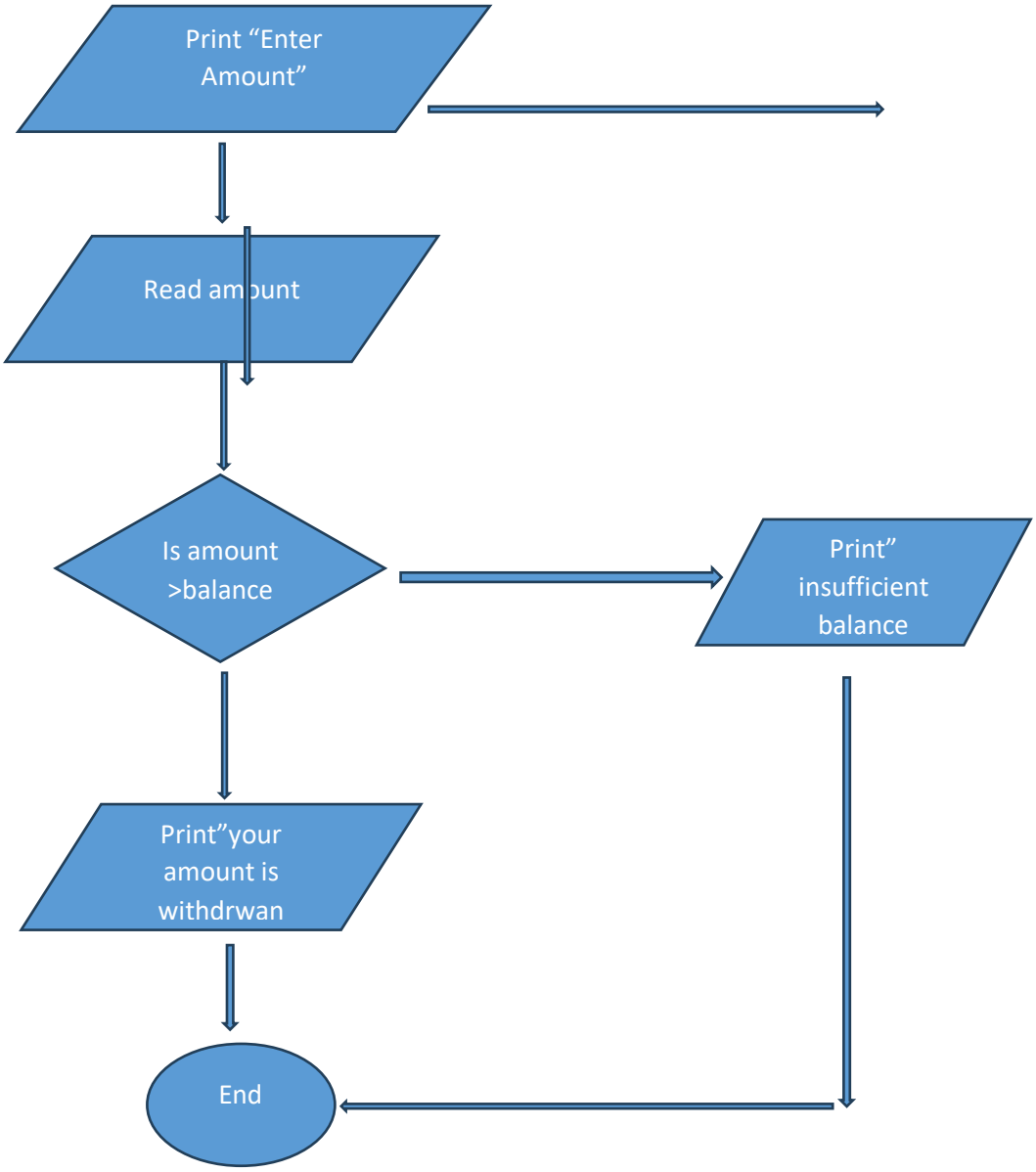
Print “ your Amount has been withdrawn”

End

Algorithm:

1. Display a message to ask user to enter pin
2. Read pin from user
3. Check whether pin is valid or not
4. If not again read pin
5. If yes then ask user to enter amount
6. Read amount
7. Check whether amount is greater then bank balance
8. If yes then print an error msg
9. Else end program





5. Create pseudocode a small calculator which only does ‘+’ or ‘-‘Operations. (Hint: Take three variable inputs with one being used for the operator)

Pseudocode:

Start

Print “ Enter num1,num2”

Read num1,num2

Print “Enter operator”

Read operator

While operator !=”+” or operator!=”-“

Read operator

End while

If operator == “+”

Then output=num1+num2

Else

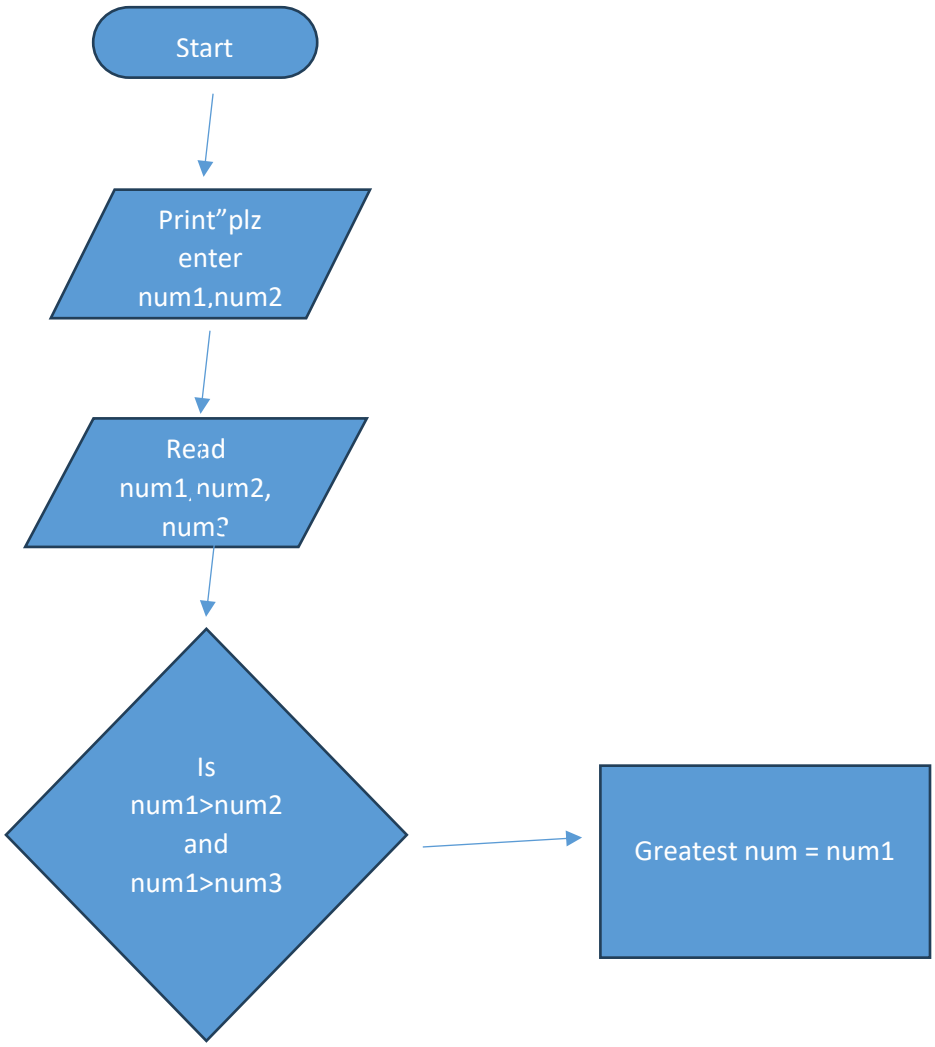
Output=num1-num2

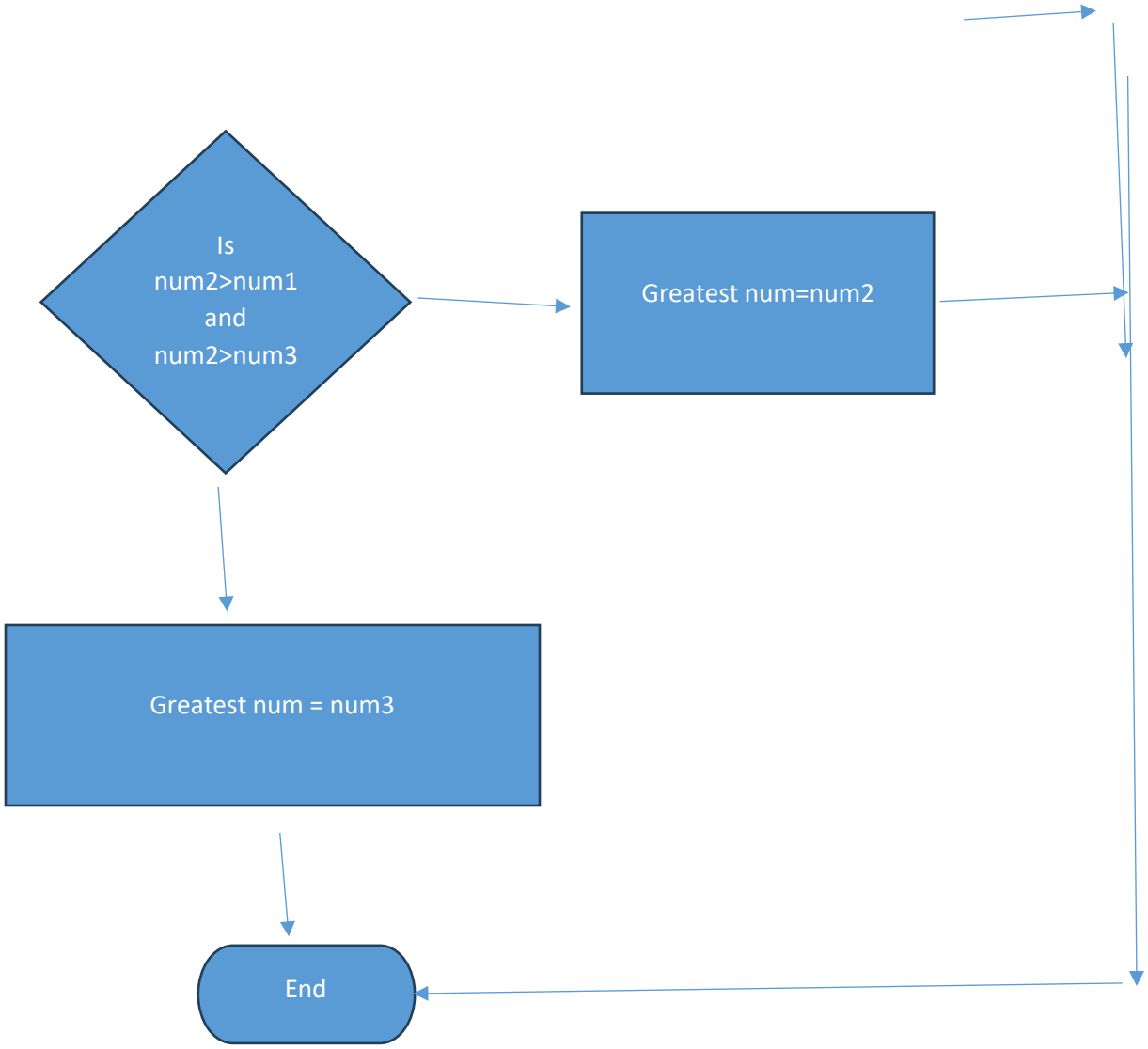
Endif

Print “your output is”,output

End

3. Design a flowchart, Pseudocode, Algorithm to determine which of three provided numbers is the greatest.





Pseudocode:

Start

Print”Enter num1,num2 num3”

Read num1,num2,num3

If num1>num2 And num1>num3 then

Greatest num=num1

Else if num2>num1 And num2>num3 then

Greatest num=num2

Else

Greatest num=num3

Print Greatest num

End

Algorithm:

1. Ask user to input num1
   Ask user to input num2
2. Ask user to input num3
3. Check whether num1 is greater than num2 and num3
4. If yes then store it to greatest num
5. Check whether num2 greater than num1 and num3
6. If yes store it to greatest num
7. Else store num3 to greatest num
8. Print greatest num

7. Implement an algorithm for making a simple calculator with all the operators (+,-,*,/,%)

1. Ask user to input num1 and num2
2. Ask user to input operator
3. Use while loop to check whether correct operator is input or not
4. If not then again enter the operator
5. Check which operator is input
6. If op is “+” then add num1 and num2
7. If op is “-“ then subtract num1 from num2
8. If op is”*” then multiply num1 and num2
9. If op is”/” then divide num1 from num2
10. If op is “%” then use mod function
11. Display result

9.Why we use .gitignore?

. gitignore file plays a crucial role in your Git repository. It tells Git which files or directories to ignore in a project. This is particularly useful for ignoring files that don't need to be committed, like temporary files, logs, or files containing sensitive information.

10.Difference between Algorithm and Pseudocode?

An algorithm is a systematic, logical approach that provides a step-by-step procedure for computers to solve a specific problem. Pseudocode is a simplified version of programming codes, written in plain English language and used to outline a program before its implementation.