Assignment #02

ANS 1:

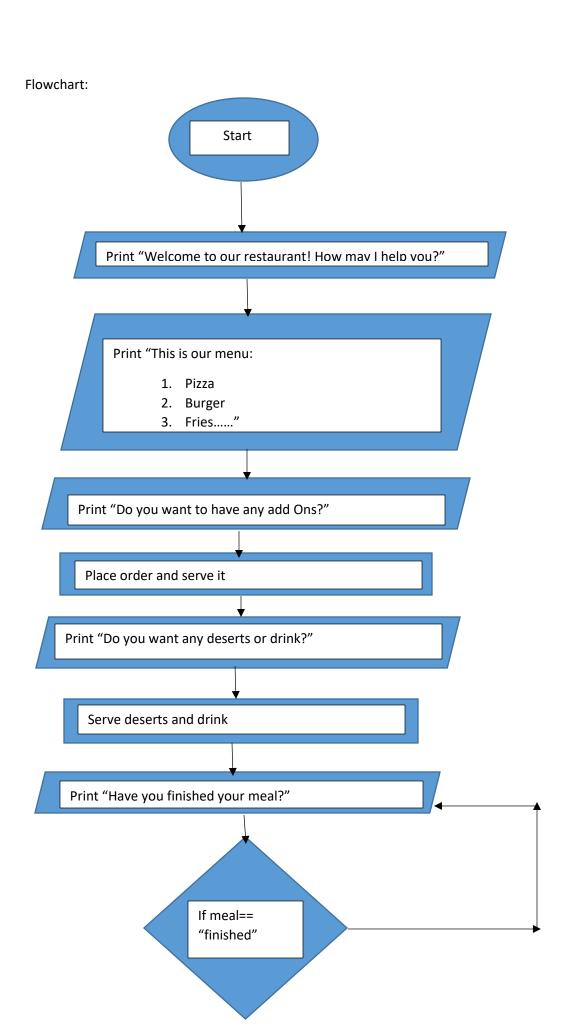
Algorithm:

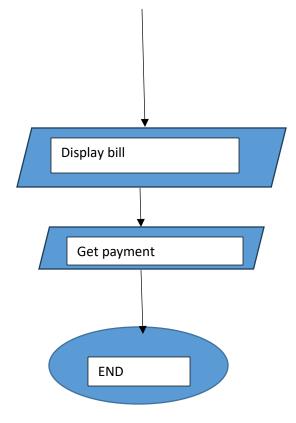
- 1. Greet the costumer
- 2. Display the menu
- 3. Receive the order form costumer
- 4. Ask for any add Ons
- 5. Place the order
- 6. Ask costumer for deserts and drinks
- 7. Serve the costumer with desired order
- 8. Ask if he has finished eating so bring bill
- 9. Receive payment
- 10. Give change if any
- 11. Greet the costumer and leave.

Pseudocode:

- ➤ START
- PRINT "Welcome to our restaurant, how may I help you?"
- > PRINT "This is our menu please have a look and place your order:
 - 1. Burgers
 - 2. Fries
 - 3. Pizza....."

- ➢ GET order
- PRINT "Do you want to have any add Ons?"
- GET add on
- PRINT "Do you need any deserts or drinks?"
- GET drinks
- PRINT "Have you finished your meal?"
- ➢ GET meal
- ➤ IF meal== "finished":
 - o PRINT "Here is your bill"
- ELSE:
 - o REPEAT step 9
- PRINT "Thank you for coming hope you enjoyed our services"
- ➤ END





ANS 2:

Algorithm:

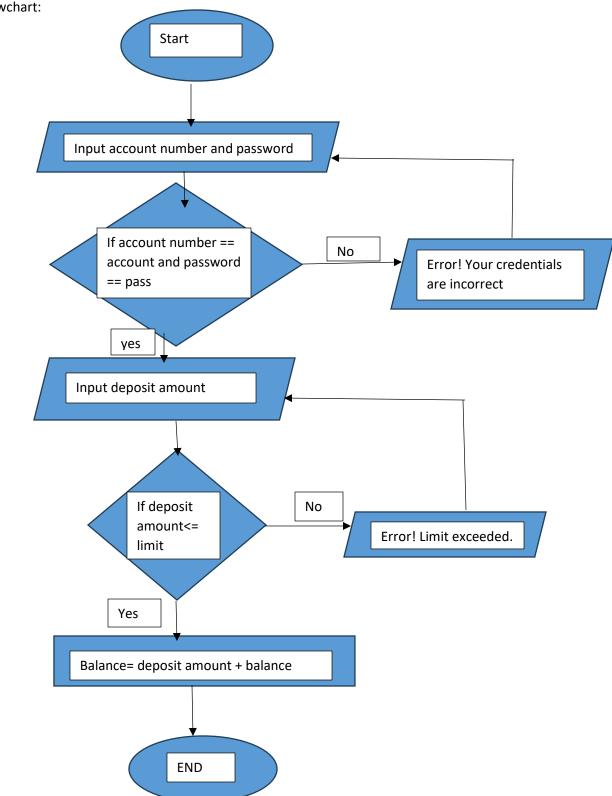
- 1. Receive account number and deposit amount required
- 2. Cross check the account number with the data base.
- 3. If account number doesn't exist so display an error message. Repeat until database matches
- 4. Ask for the password and crosscheck with the database
- 5. If password doesn't match the data base so display error message
- 6. Check if the required amount is within the limit if not then display error message
- 7. Add the required amount from the bank balance and display total balance

Pseudocode:

- ➤ START
- READ Account FROM Database
- READ Pass FROM Database
- PRINT "Enter account number:"
- READ account_number
- WHILE account_Number! = Account:
 - o PRINT "Error, wrong account number!"
 - PRINT "Enter account number:"
 - o READ accountNumber
- PRINT "Enter password: "
- > READ password
- ➤ IF password == Pass:
 - PRINT "Enter the amount to be deposited:"

- **READ** amount
- o CALCULATE balance = balance + amount
- o PRINT "Amount deposited successfully, your total balance is: " balance
- > ELSE
 - o PRINT "Error wrong password"
- ➤ END





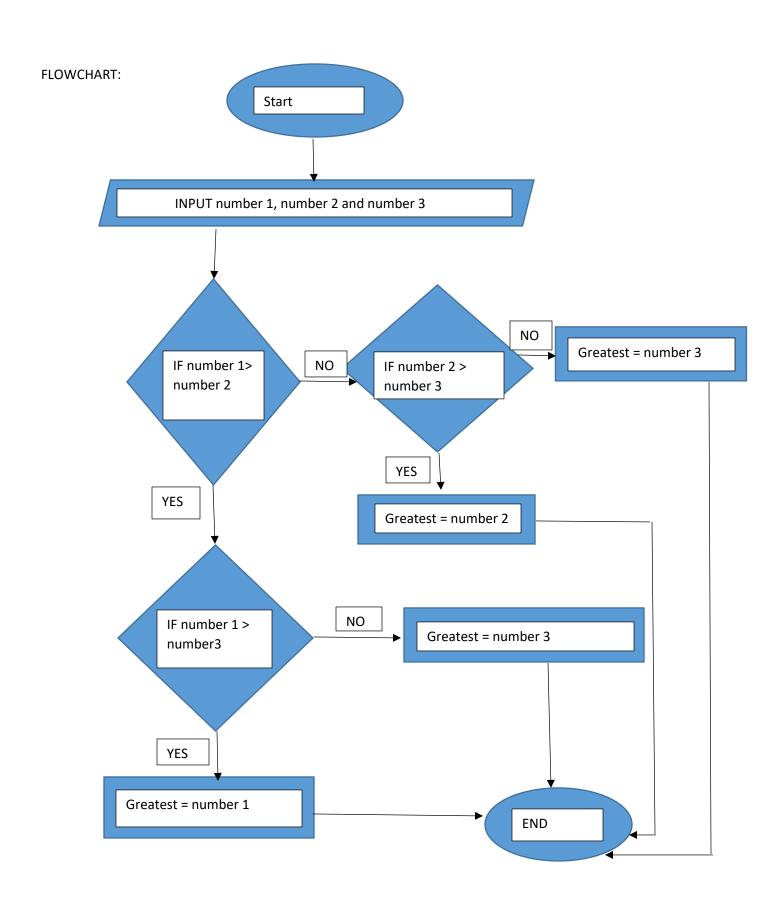
ANS 3:

Algorithm:

- 1. Input 3 numbers
- 2. Compare number 1 and 2
- 3. If number 1 is greater proceed to compare number 1 and 3 else compare number 2 and 3
- 4. If number 1 is greater than number 3 display number 1 as greatest
- 5. Else if number 2 is greater than number 3 display number 2 as greatest
- 6. Else if number 3 is greater than number 1 and 2 display number 3 as greatest

Pseudocode:

- Start
- > INPUT number 1, number 2 and number 3
- ➤ IF number 1> number 2 THEN
 - IF number 1 > number 3 THEN
 - Greatest = number 1
 - o ELSE
 - Greatest = number 3
- ➤ ELSE IF number 2 > number 3:
 - Greatest = number 2
- ➤ ELSE Greatest = number 3
- PRINT Greatest
- ➤ END

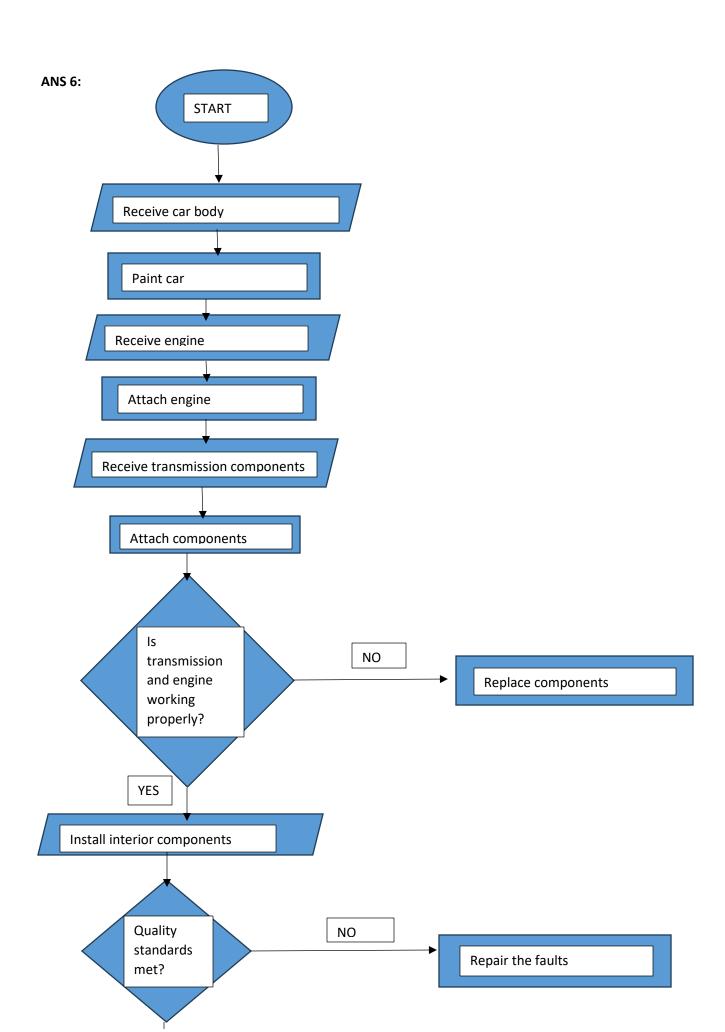


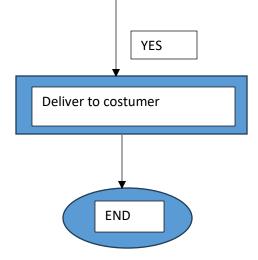
ANS 4:

- 1. Take a number as input from the user
- 2. Make sure the number is between 1 to 12 inclusive. If not ask to input again
- 3. If number is 1 then display January
- 4. If number is 2 then display February
- 5. If number is 3 then display March
- 6. If number is 4 then display April
- 7. If number is 5 then display May
- 8. If number is 6 then display June
- 9. If number is 7 then display July
- 10. If number is 8 then display August
- 11. If number is 9 then display September
- 12. If number is 10 then display October
- 13. If number is 11 then display November
- 14. If number is 12 then display December

ANS 5:

- ➤ START
- PRINT "Enter first number"
- ➤ GET num1
- PRINT "Enter second number"
- ➤ GET num2
- ➤ PRINT "Enter an operator from + or -"
- Get operator
- ➤ IF operator== "+":
 - O THEN answer = num1+num2
- ELSE operator== "-":
 - o THEN answer = num1-num2
- PRINT answer
- ➤ END





ANS 7:

- ➤ START
- PRINT "Enter first number"
- ➤ GET num1
- PRINT "Enter second number"
- ➤ GET num2
- > PRINT "Enter an operator from + or -"
- > Get operator
- ➤ IF operator== "+":
 - O THEN answer = num1+num2
- ELSE IF operator== "-":
 - THEN answer = num1-num2
- ELSE IF operator == " x":
 - o THEN answer = num1*num2
- > ELSE IF operator == "/":
 - o THEN answer = num1/num2
- ELSE IF operator == "%":
 - o THEN answer = num1%num2
- PRINT answer
- ➤ END

ANS 9:

We use ". gitignore" to exclude unnecessary files and reduce repository size and to keep sensitive information private. It also Improves performance and organization.

ANS 10:

An algorithm is a set of obvious, logical, and sequential steps that solve a specific problem. Pseudocode is a way to express an algorithm or program logic in a human-readable form, using plain language and simple notations that resemble programming constructs.