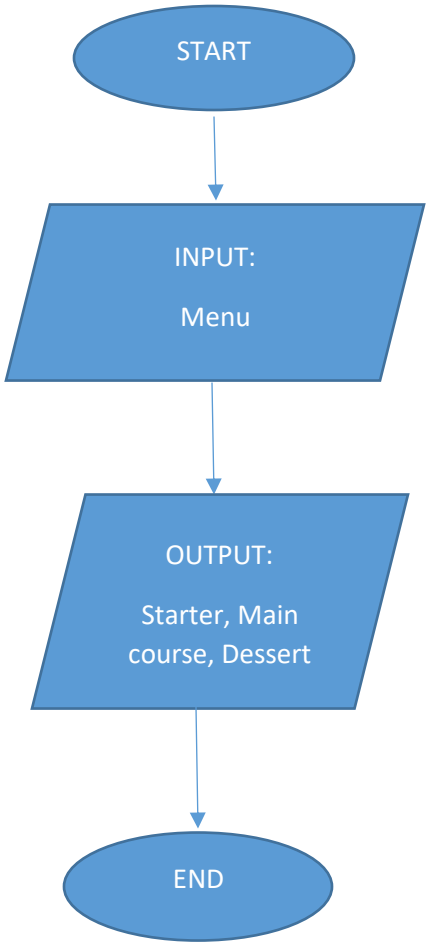
LAB 02 TASKS

Q.1) **Flowchart**



Q.1) **Pseudocode**

Start

Input: Menu

Output: order delivered with bill

Process: Add starter - garlic bread

Add main course - one large chicken fajita flavored pizza

Add dessert – ice cream

Conditionals: If thick crust

Then crust filled

Else thin crust

End

Algorithm

Start

1. Go to the customer
2. Give the menu
3. Take the order
4. Ask for any specifications of the order
5. Confirm the order
6. Deliver the ordered food
7. Give the bill
8. Take the amount paid
9. Give the change if required

End

Q.2) **Pseudocode**

Start

Input: debit card, pin code

Output: 4500 rupees cash

Process: Add 1000

Add 1000

Add 1000

Add 1000

Add 500

Conditionals: If 500 note not available

Then 5 100 rupees notes

End

Algorithm

Start

1. Go to the ATM machine
2. Insert the debit card
3. Enter the pin code
4. Select the option for cash withdrawal
5. Enter the amount you want to withdraw
6. Specify the value of currency note you want
7. Wait for the transaction
8. Collect your card
9. Collect your payment
10. Leave the ATM machine

End

Q.3) **Pseudocode**

Start

Input: Number 435, Number 456, Number 309

Output: The greatest number 456

Process: Set write the digits of the numbers according to their respective number place values

Conditionals: If the hundred place value of the numbers has the same digit

Then check the ten place value

If the ten place value of the numbers has the same digit

Then check the one place value of the digits

End

Algorithm

Start

1. Write the digits of all three numbers according to their respective place values
2. Check the hundred place value digit of all the three numbers
3. Separate the number with the smallest hundred place value digit
4. If the hundred place value digit is same for two numbers, then check the ten place value of the digit
5. Separate the second number that has a smaller ten place value
6. The number that is left behind is the greatest number

End

Q.4) **Pseudocode**

Start

Input: numbers 1-12

Output: months from January to December

Process: Assign number 1 for January, number 2 for February, number 3 for March and so on till the month of December

Algorithm

Start

1. Assign number 1 for January
2. Assign number2 for February
3. Assign number 3 for March
4. Assign number 4 for April
5. Assign number 5 for May
6. Assign number 6 for June
7. Assign number 7 for July

8. Assign number 8 for August
9. Assign number 9 for September
10. Assign number 10 for October
11. Assign number 11 for November
12. Assign number 12 for December

End

Q.5) **Pseudocode**

Start

Input: operators ‘+’ ‘-‘ ‘=’ , numbers from 0-9

Output: final answer

Process/Conditionals: If the operator is ‘+’ , then the numbers entered in the calculator are added

If the operator is ‘-‘, then the numbers entered are subtracted.

End

Q.7) **Algorithm**

Start

1. Write the simple calculator program.

2. Set ‘+’ for addition function.

3. Set ‘-‘ for subtraction function.

4. Set ‘*’ for multiplication operation.

5. Set ‘/’ for division operation.

6. Set ‘%’ for percentage operation.

7. Input numbers to check if the functions are working well.

End

Q.9) Gitinore acts as a protection from overwhelming the repository with unnecessary files and exposing of confidential information. It ensures that the files not tracked by git remain untracked.

Q.10) Algorithm is a systematic and formal approach whereas pseudocode is an informal version of coding in programming language. Algorithm helps to simplify and understand the problem and pseudocode is a method of developing an algorithm.

Q.6)