

Question 1

Algorithm

Input customer items

input quantity of each item

Check the availibilty of items according to the quantity required

multiply quantity into cost of item

Add up total cost of indivisual items

Print the receipt

receive the money

provide him the receipt

pseudocode

Declare itemname, Biryani , tikka : STRING

Declare

TotalSum,ITEMNUM,itemtotal,QUANTITY,totalBiryani,totaltikka: INTEGER

==0

TotalSum==0

itemtotal==0

PRINT " total number of items"

INPUT ITEMNUM

FOR x == 1 TO ITEMNUM

PRINT " Select item "

PRINT " Input quantity "

INPUT ITEMNAME

INPUT QUANTITY

If ITEMNAME = Biryani

THEN totalBiryani = QUANTITY*250

elseif ITEMNAME = Tikka

THEN Totaltikka= QUANTITY*300

ENDIF

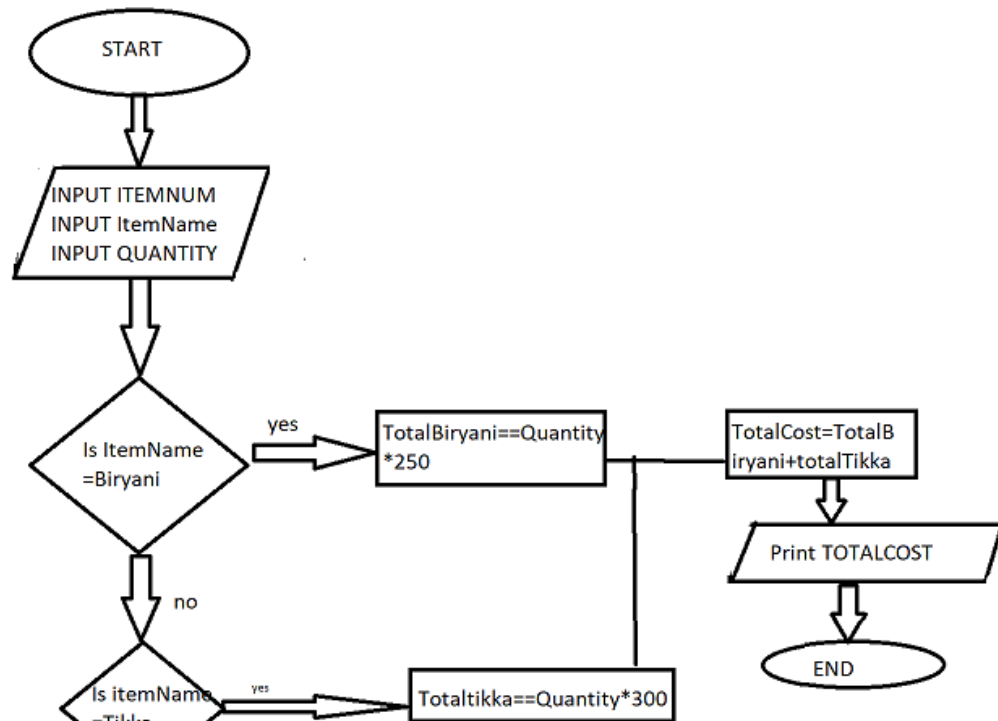
ENDIF

NEXT x

TotalSum=TotalBiryani+ Totaltikka

PRINT TotalSum

FLOWCHART



QUESTION 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:

DECLARE AccountNum, DepositNum, TotalBalance : INTEGER

INPUT AccountNum, DepositNum

IF AccountNum <> 0 THEN

```
IF DepositNum > 0 THEN
TotalBalance = TotalBalance + DepositNum
PRINT ("The new total balance is: " , TotalBalance)
ELSE
PRINT ("Enter a number that is greater than 0")
END IF
ELSE
PRINT ("Invalid account number.")
END IF
```

ALGORITHM:

1. Ask user to enter account number and the amount needed to deposit
2. Check if account number is not something out of range. If it is out of range then print invalid number
3. Check if the amount deposited is not 0. If it is zero then ask user to enter number that is greater than 0
4. Once everything has been validated then add the deposited amount into the total balance of the user
5. Print the new total balance

Question 3

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

PSEUDOCODE:

DECLARE num1,num2,num3:INTEGER

INPUT num1

INPUT num2

INPUT num3

if num1>num2 AND num1>num3

PRINT: num1 “ is the greatest “

elseif num2>num1 AND num2>num3

PRINT: num2 “ is the greatest “

Else

PRINT: num3 “ is the greatest “

ALGORITHM:

1, ask user to enter 3 numbers

2 compare each number ,which one is the largest

3. Print the largest number

Question 4

Algorithm

Implement an algorithm where the user enters a number, and an appropriate month is

displayed.

1. Ask the user to input a number ranging from 1 to 12
2. Check if the user entered the number in correct range or else ask them to reinput
3. Compare the number with the numbers stored in array
4. Output the corresponding month of the number (like number 4 entered will output april)

QUESTION 5:

5. Create pseudocode a small calculator which only does '+' or '-' Operations. (Hint: Take three

```
DECLARE NUM 1, Num2:INTEGER
```

```
DECLARE operator :STRING
```

```
If operator = "+"
```

```
    NUM1+NUM2
```

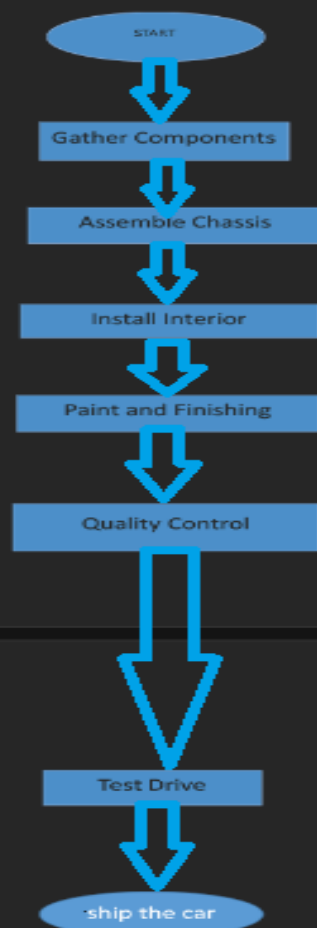
```
Elseif operator = "-"
```

```
    NUM1-NUM2
```

ENDIF
ENDIF

Question 6

Question 6



QUESTION 7

1.) INPUT 2 NUMBERS

2.) if operator = + then NUM1+NUM2

3.) if operator = - then NUM1-NUM2

4.)if operator = * then NUM1*NUM2

5.)if operator = / then NUM1/NUM2

**6.)if operator = % then it will give us the remainder on dividing
2 numbers NUM1+NUM2**

Question 9

why we use .gitignore?

1.) A .gitignore file specifies intentionally untracked files that

Git should ignore. These files won't be affected by Git's version control system.

2.) When you're working on a project, there are often files that you don't want to include in your Git repository. These might be temporary files, build artifacts, or sensitive data.

3.) By listing these files in your .gitignore, you ensure that Git won't track them, making your repository cleaner and more focused on the essential code and resources¹².

QUESTION 10

Algorithm is a step by step process to solve a problem while pseudocode is structural English , simplified version of programming codes and used to outline a program before its implementation

Algorithm is written in steps while psuedocodes are written In programming suntax

