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

1)Pseudocode

Start

Display “welcome to restaurant”

Print “how may I help you”

Display menu card

Read order

Read toppings

Calculate bill

Display “your bill is”,bill

Get amount

Print “thanks for your order”

End

Algorithm

Welcome the costumer in restaurant

Ask the costumer how may I help you

Show menu card to the costumer

Get order from costumer (1 plate biryani)

Ask for drinks to the costumer

Get drink order from costumer (1 soft drink)

Calculate bill (1 biryani=300, 1 softdrink=150(300+150=450)) show bill to costumer

get cash from costumer

say thanks to costumer

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.

Start

Print enter pin Op is =0246

Read pin

If pin==op Print enter withdrawal amount

Else if pin!=op

Repeat step 2

Read withdrawal amount

Check balance in user account

If withdrawal amount <= balance Print transaction is being processed

Else if print low balance

Repeat step 9

End

Algorithm

Ask the user to enter pin

Check original pin (0246)

If pin == op

Ask the user to enter withdrawal amount

Else if pin != op

Repeat step 2

Check balance in user account

If withdrawal <= balance

Show your transaction is being processed

Else if show low balance to user

Repeat step 5

Give cash to user

End

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

Start

Display enter 3 numbers

Read number as A,B,C respectively

If A>B,C print A is greatest

Else if B>A,C print B is greatest

Else if C>A,B print C is greatest

Else

end

algorithm

ask the user to enter three numbers

read the numbers as A,B,C respectively entered by user

if A> B,C show a is greatest

else if B>A,C show B is greatest

Else if C> A,B Show C is greatest

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

Ask user to enter a number between 1 to 12

If user enter 1 show month January

If user enter 2 show month february

If user enter 3 show month march

If user enter 4 show month april

If user enter 5 show month may

If user enter 6 show month June

If user enter 7 show month july

If user enter 8 show month august

If user enter 9 show month september

If user enter 10 show month octuber

If user enter 11 show month November

If user enter 12 show month december

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

Start

dispay enter two number

read num 1 and num 2

chose operater

if operater is +

calc sum(num 1+ num2)

print “sum is”sum

else if operator is –

calc difference (num 1-num2)

print “difference is “,difference

end

. 6. You are working at Toyota Indus Motors and want to assemble a car. Design a flowchart with proper process modules and decision structures to replicate a pipeline production

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

Ask the user to enter two numbers.

Read the numbers as num 1 and num 2 respectively.

Ask the user to choose operator.

Read the operator.

If operator is *

Calc multiplication (num 1 *num 2)

Else if operator is /

Calc division (num 1/num2)

Else if operator is +

Calc sum (num 1 + num2)

Else if operator is –

Calc difference (num 1- num 2)

Else if operator is %

Calc percentage (num 1=(x/100)*num 2)

Print “answer is”, multiplication or division or sum or difference or percentage depending on operator.

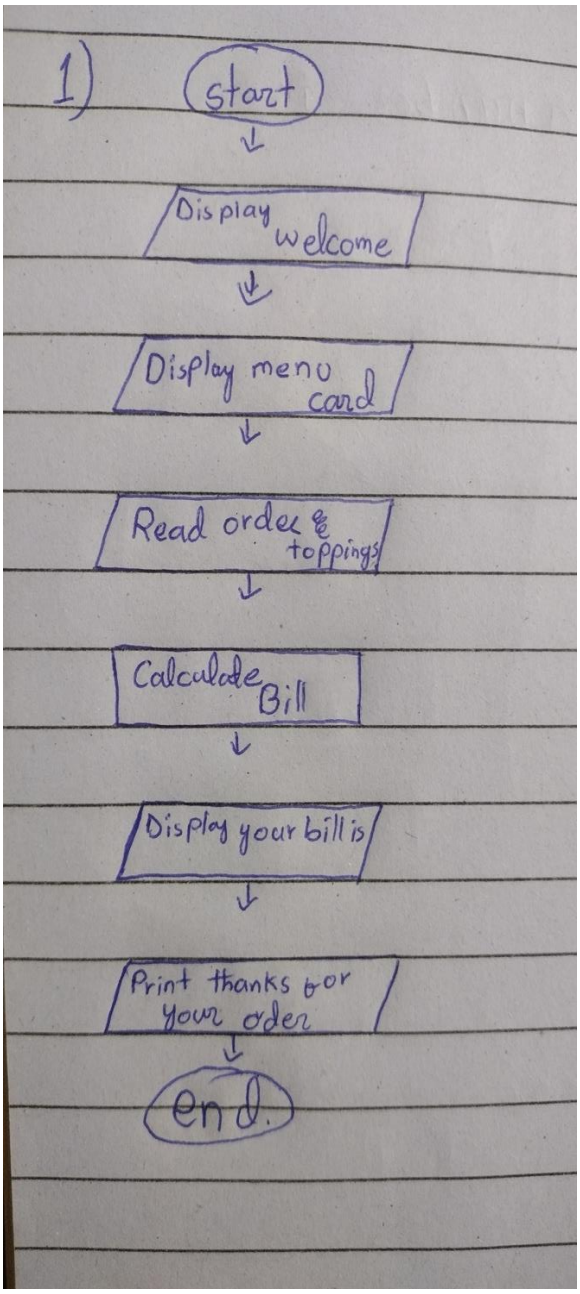
8. Create your repository with your roll number being your repo name, Upload the algorithms and pseudo codes in your repository, Create a small intro about yourself in the readme file with pictures and bullet points.

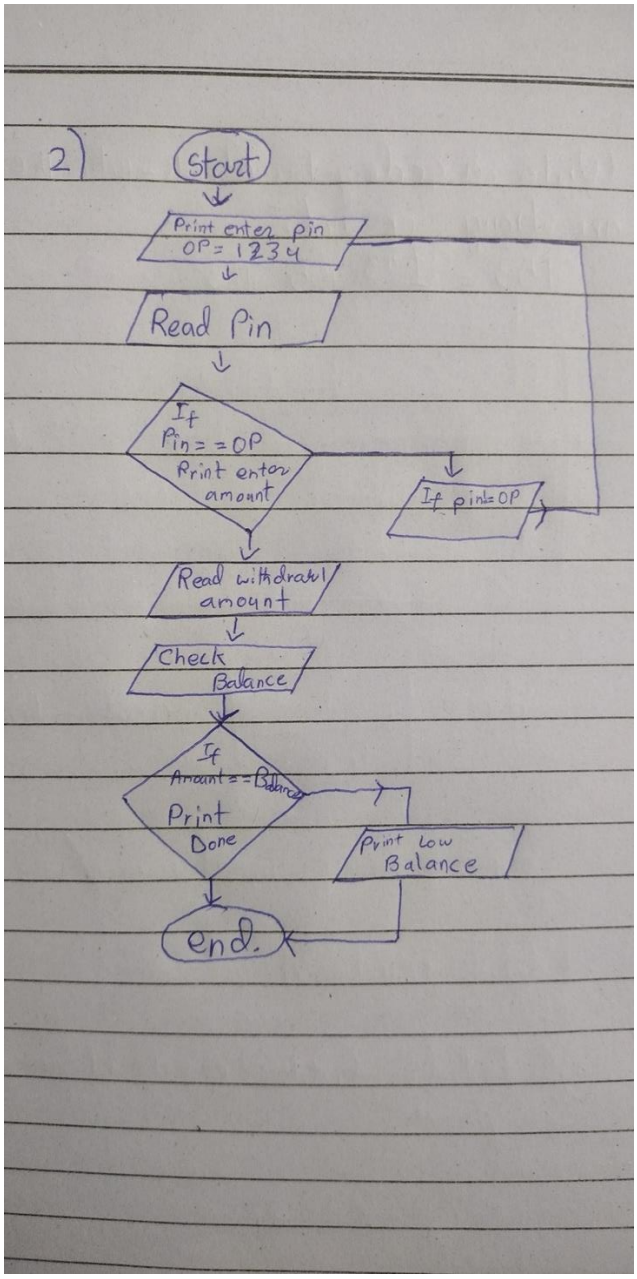
9. Why we use .gitignore?

The gitignore is used for tracking which types of files to ignore, choose none and all files will be tracked otherwise you can select which type of files to exclude from tracking.

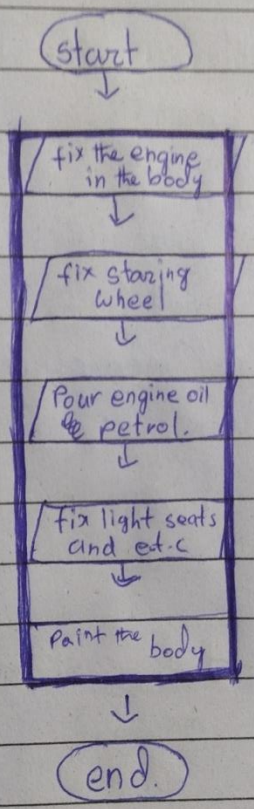
10. Difference between Algorithm and Pseudocode?

An algorithm is a systematic, logical approach that provides a step-bystep 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.


1)
start
Display welcome
Display menu card
Read order & toppings
Calculate Bill
Display your bill is
Print thanks for your oder
end.

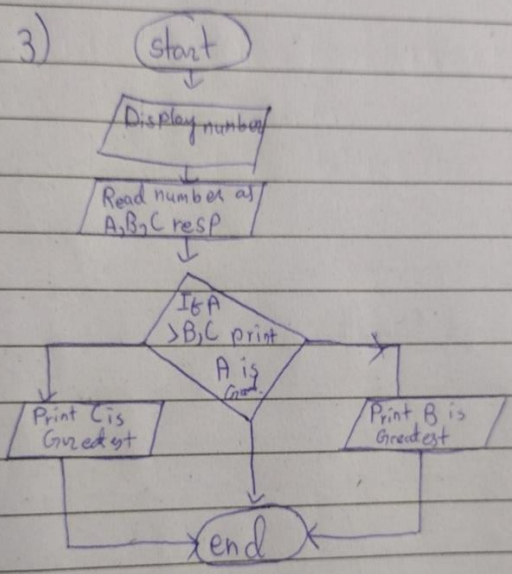

2)
start
Print enter pin OP=1234
Read Pin
If Pin==OP
Print enter amount
If pin!=OP
Read withdrawl amount
Check Balance
If Amount==Balance
Print Done
Print low Balance
end.

6)


start
fix the engine in the body
fix staring whee
Pour engine oil & petrol.
fix light seats and etc
Paint the body
end.

Date

3)


start
Display number
Read number as A,B,C resp
If A >B,C print A is Great.
Print C is Greatest
Print B is Greatest
end