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

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.

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

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

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

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 (+,-,*,/,%)

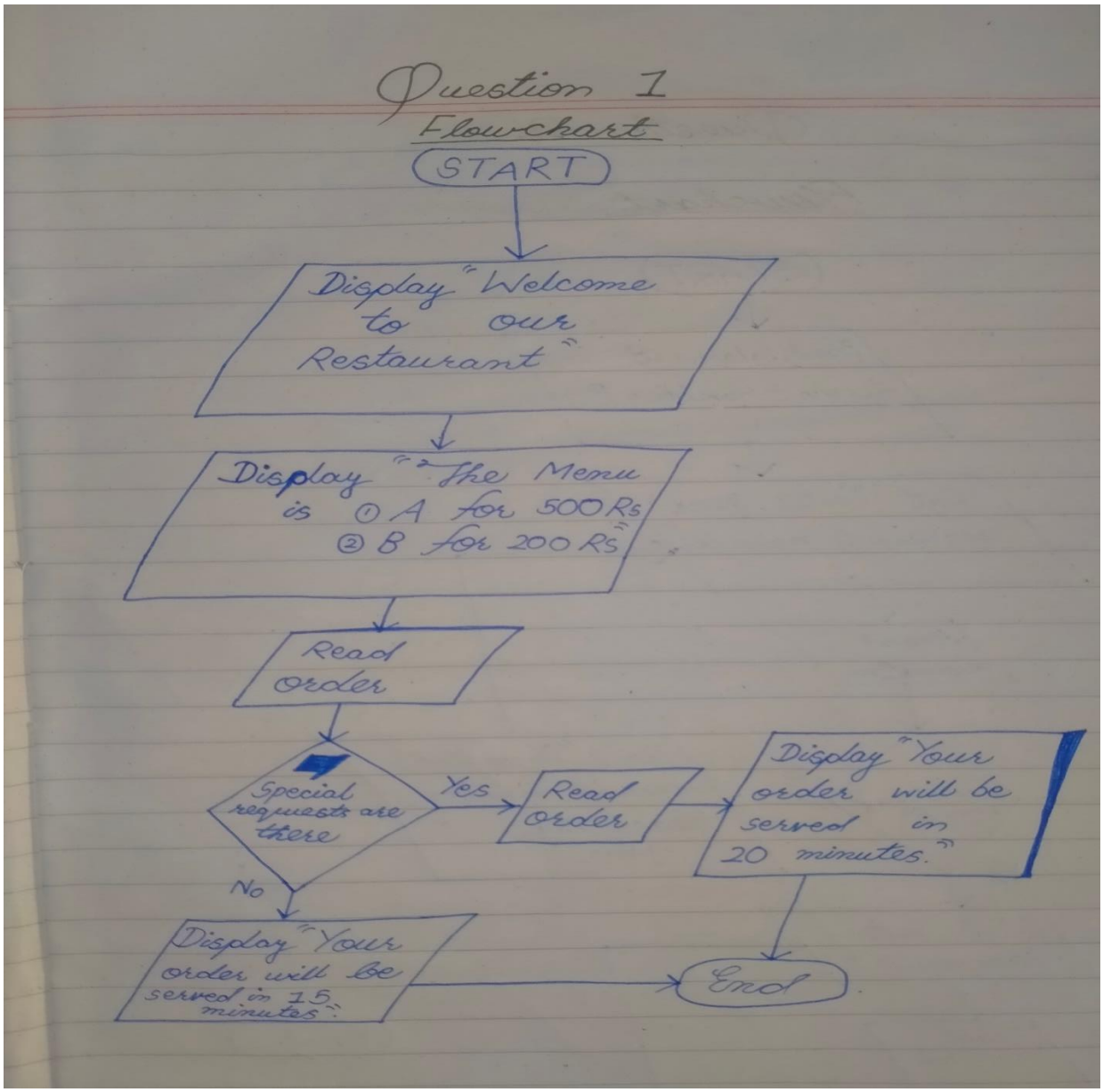
8. Create your repository with your roll number being your repo name, Upload the algorithms and pseudo codes in your repository, Create a small intro about yourself in the readme file with pictures and bullet points.

9. Why we use .gitignore?

10. Difference between Algorithm and Pseudocode?

Question 1

Flowchart:



Algorithm:

- Greetings
- Show Menu
- See if there are any special requests
- Take Order
- Get payment
- Server order
- Thank you.

Pseudo Code:

Start

Display ‘Welcome to our restaurant’

Display ‘The menu is

A for 500Rs

B for 200Rs’

Read order

If special requests are there, Handle special requests

Read special requests

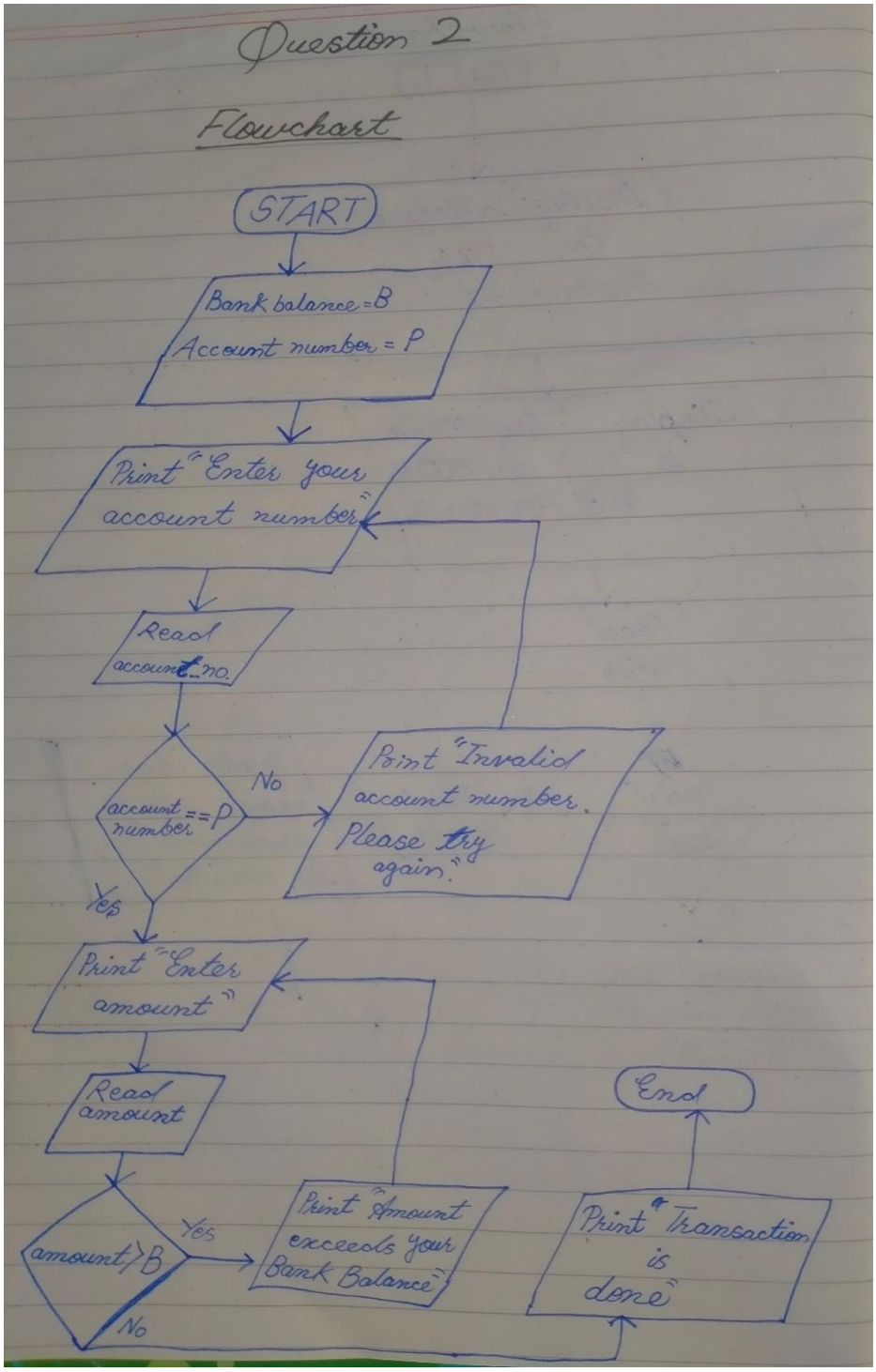
Display “Your order will be served in 20 minutes”

Else Display “Your order will be served in 15 minutes”

End

Question 2

Flowchart:



Algorithm:

Enter account number

Enter account password

Read account number, account password

If account number and account password are wrong

Repeat step 1

Else Enter amount

If amount is not equal or less than the bank balance

Amount exceeds your bank balance

Else Transaction is done

Pseudo code:

Start

B=55000
I=98236573
P=5362

Display ’Enter your account number’

Read account_number

Display “Enter your account password”

If account number==I and account password==P Then

    Display “Enter amount”

Read amount

If amount>B Then

Display “Amount exceeds your bank balance amount”

Else

Display “Transaction is done”

Endif

Else

Display “Invalid account number or password. Please try again”

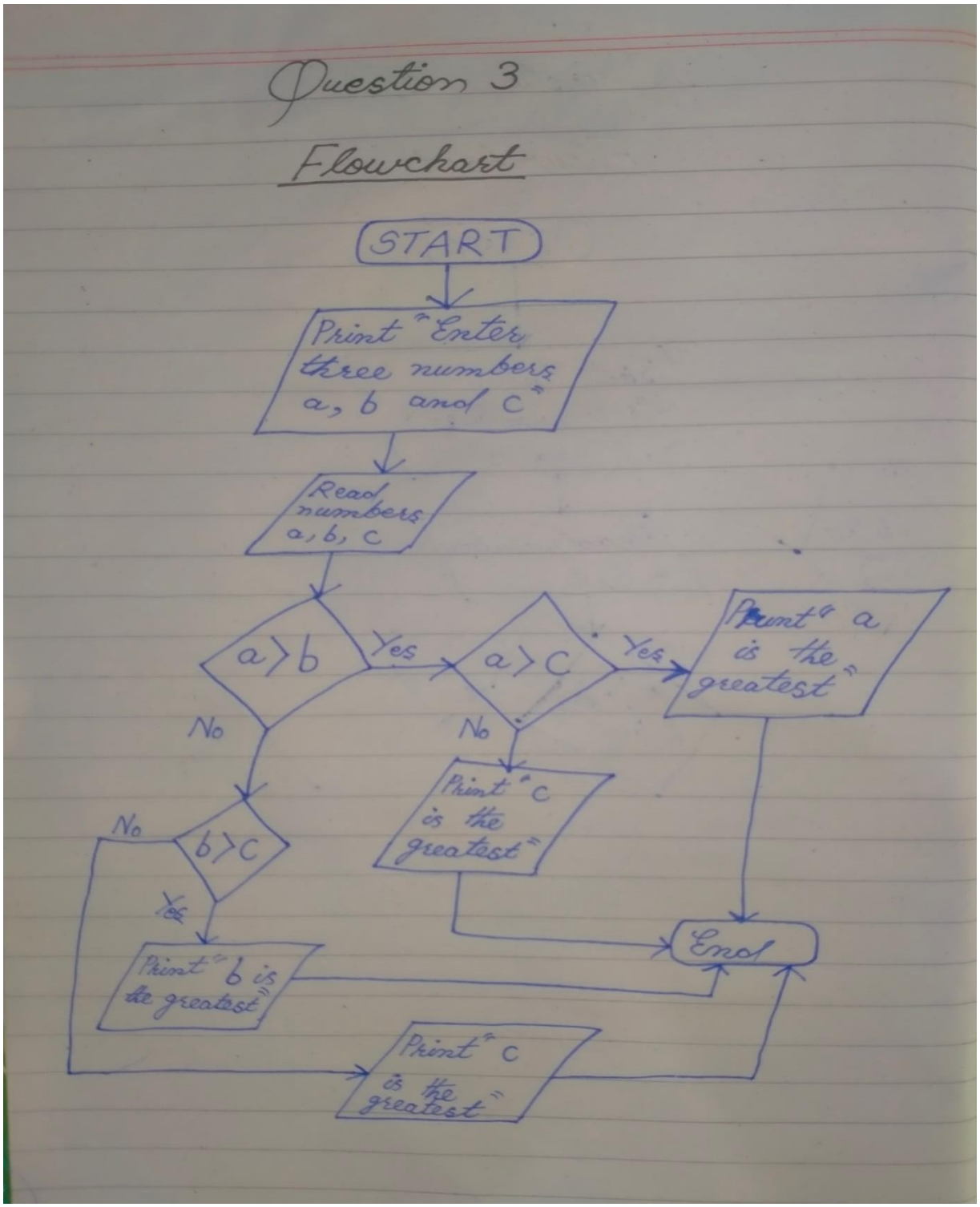
Repeat step 5

Endif

End

Question 3

Flowchart:



Algorithm:

The numbers are a, b, and c

Enter a, b and c

If a>b and a>c

Then a is the greatest number

Pseudo code:

Start
Display “Enter three numbers a, b and c”
Read a, b, c

If a>b and b>c
Then display ‘a is the greatest number’
End

Question 4

Algorithm:

Enter a number between 1 and 12’
Read number

If number is 1, The month is January

If number is 2, The month is February

If number is 3, The month is March

If number is 4, The month is April

If number is 5, The month is May

If number is 6, The month is June

If number is 7, The month is July

If number is 8, The month is

If number is 9, The month is September

If number is 10, The month is October

If number is 11, The month is November

If number is 12, The month is December

End

Question 5

Pseudo code:

Start
Declare n1, n2, n3

Print Enter three numbers

Read n1, n2, n3

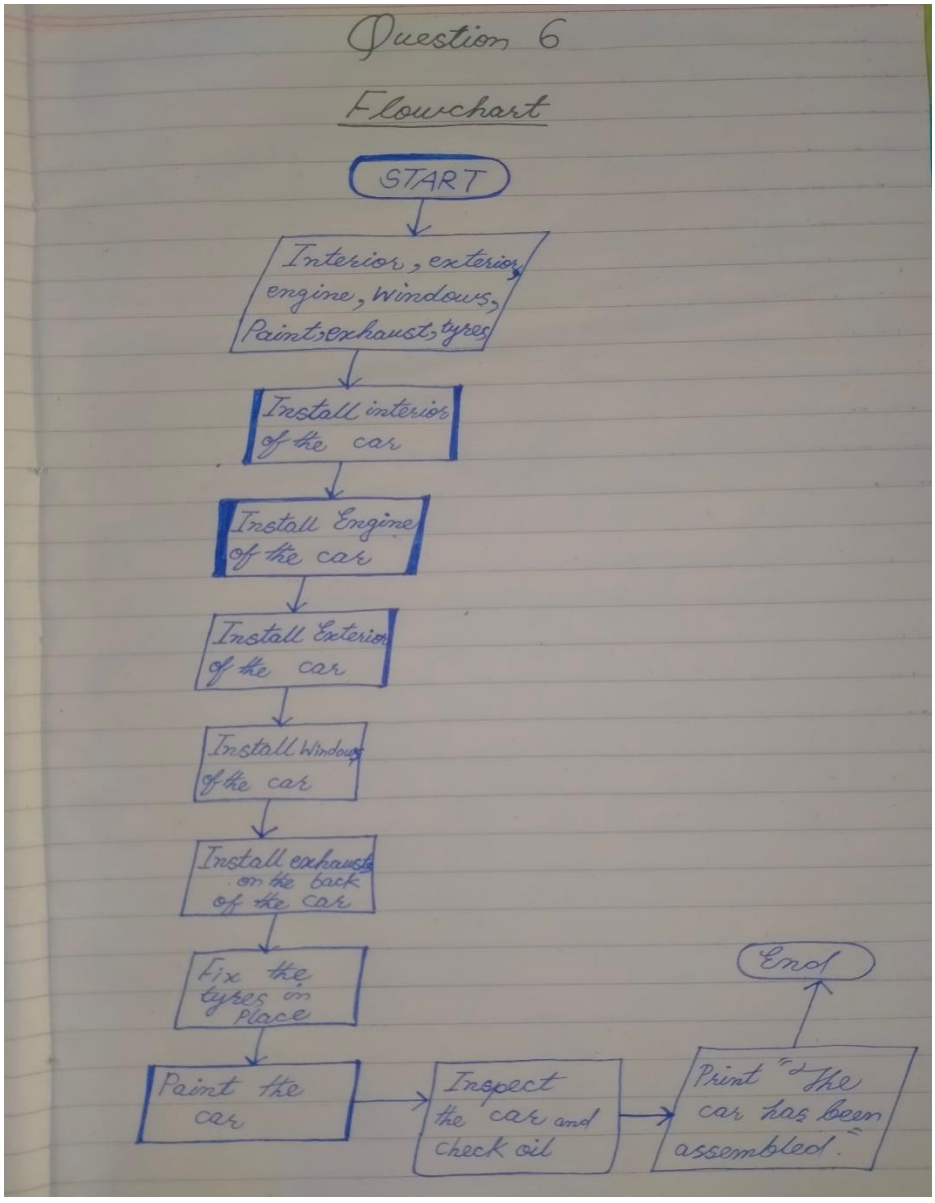
Calculate add=n1+n2+n3
Calculate sub=n1-n2-n3

Print “The addition of three numbers is”, add
Print “The subtraction of three numbers is”, sub

End

Question 6

Flowchart:



Question 7

Algorithm:

Start

n1, n2

Enter two numbers n1 and n2

Addition of two numbers is n1+n2

Subtraction of two numbers is n1-n2

Multiplication of two numbers is n1*n2

Division of two numbers is n1/n2

The Modulus of two numbers is n1%n2

Thank You

Pseudo code:

Start
Set n1, n2

Print “Enter two numbers”

Read n1, n2

Calculate add=n1+n2

Calculate sub=n1-n2

Calculate mul=n1*n2

Calculate div=n1/n2

Calculate mod=n1%n2

Print “The addition of two numbers is”,add

Print “The subtraction of the two numbers is”,sub

Print “The multiplication of the two numbers is”,mul

Print “The division of the two numbers is”,div

Print “The modulus of the two numbers is”,mod

End

Question 9

(1) To protect sensitive information from trackers
(2) To have a clean and manageable repository
(3) To reduce the repository size by removing or ignoring large files
(4) To remove unnecessary files from repository

Question 10

Algorithm:

Algorithm is like a recipe to make a program. It is a procedure to solve a problem, written in English language. It gives a logical sequence to solve a problem

Pseudo code:

Pseudo code is a simplified form of programming code. It cannot be compiled for execution. It is written in plain English. Arrows, and mathematical symbols are also used in pseudo code.