

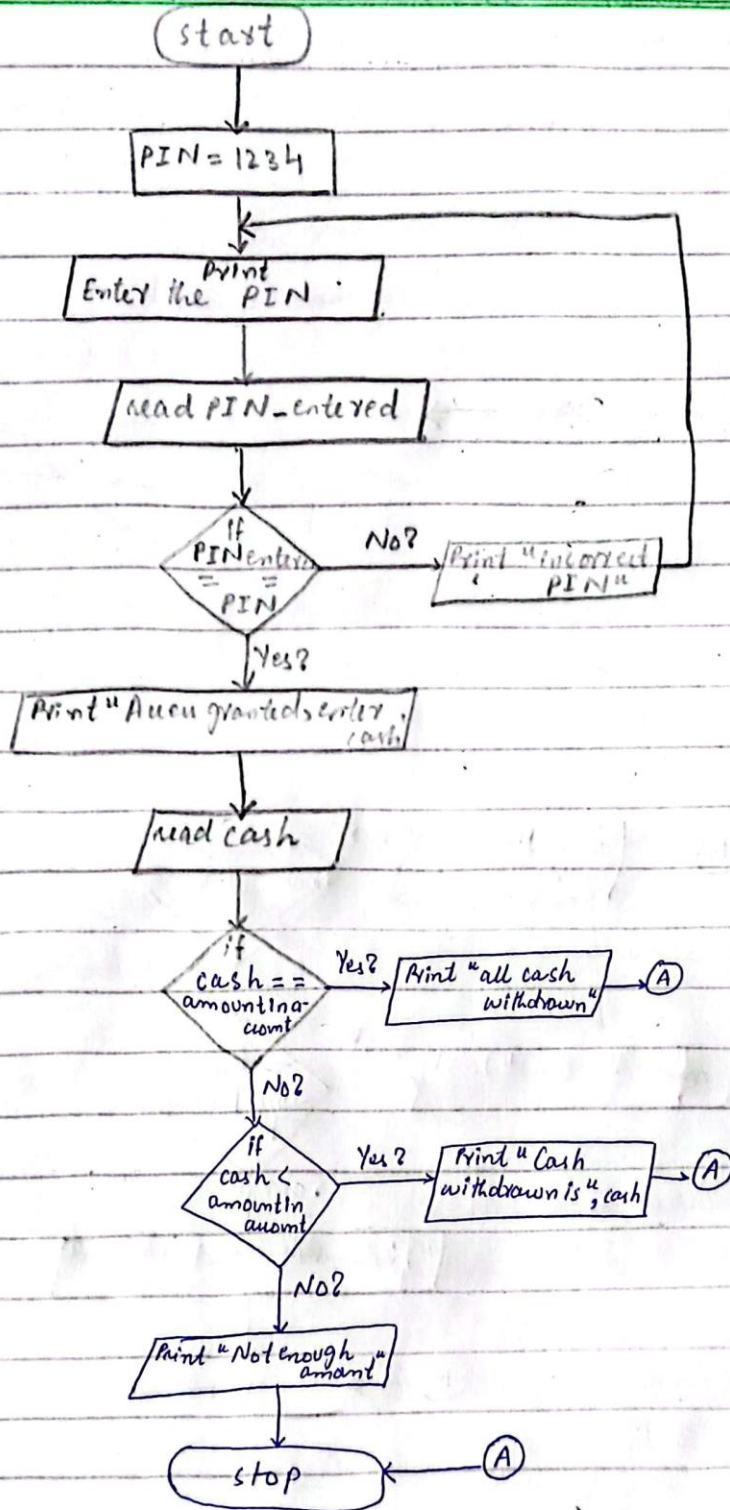
Question 2

Algorithm

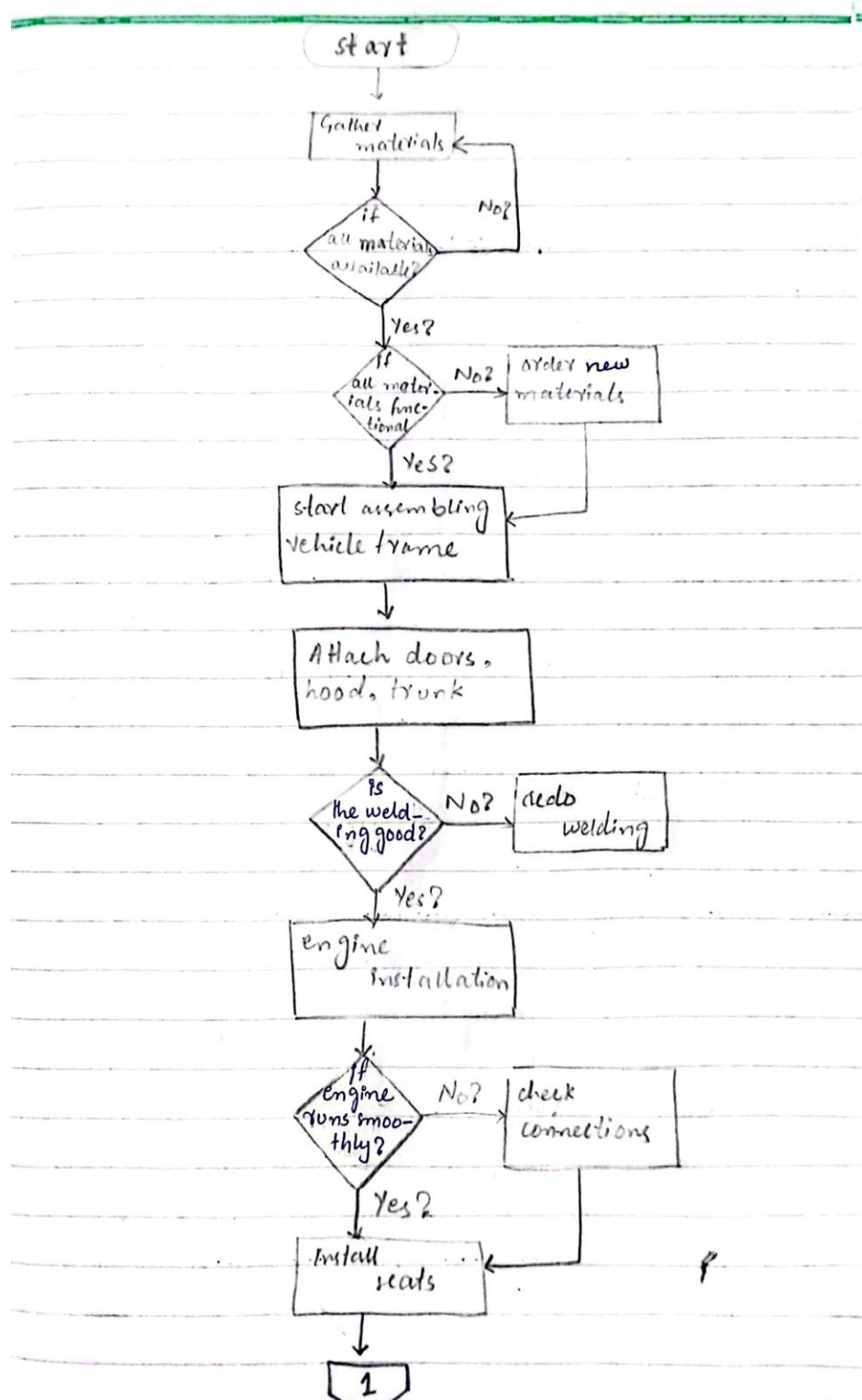
1. Start
2. Ask the user for PIN CODE
3. If CODE equals PIN then grant access
 ask for cash amount to withdraw
 check if enough cash is available
 else show warning
4. Else show incorrect PIN
5. Stop

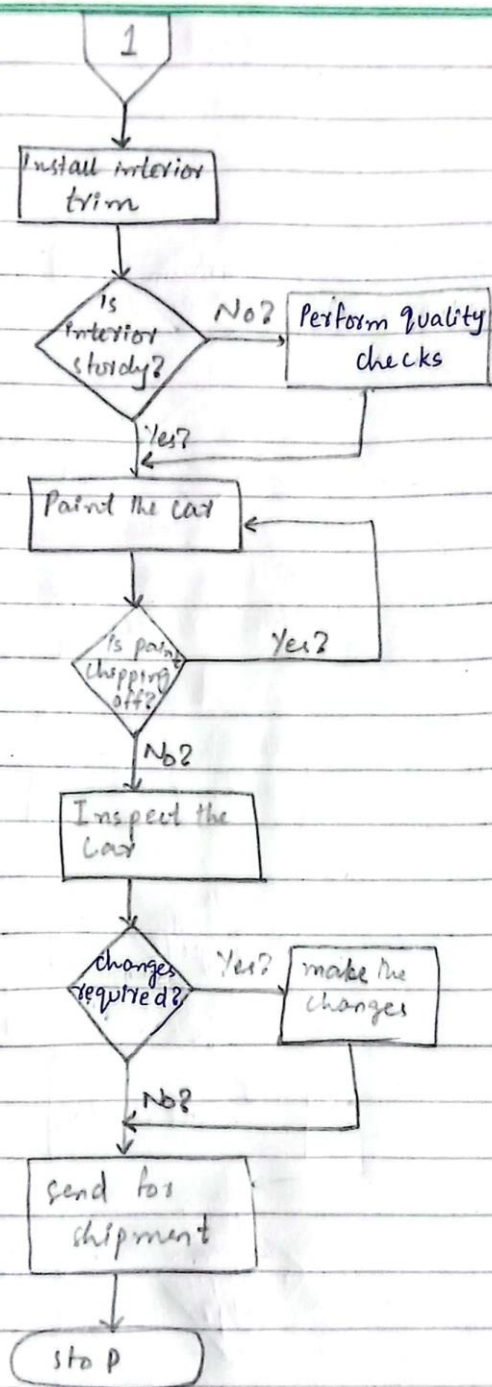
Pseudocode

1. Start
2. Set PIN=12345
3. Display "enter the PIN"
4. Read PIN_entered
5. If PIN_entered==PIN
 Then display "access granted, enter the cash amount"
 Read cash
 If cash==amountinaccount
 Then display "all cash withdrawn"
 Else if cash<amountinaccount
 Then display "cash withdrawn is", cash
 Else
 Display "not enough cash in account"
6. Else
 Display "incorrect PIN"
 Goto step 3
7. Stop



Question 6: Car assembly flowchart:





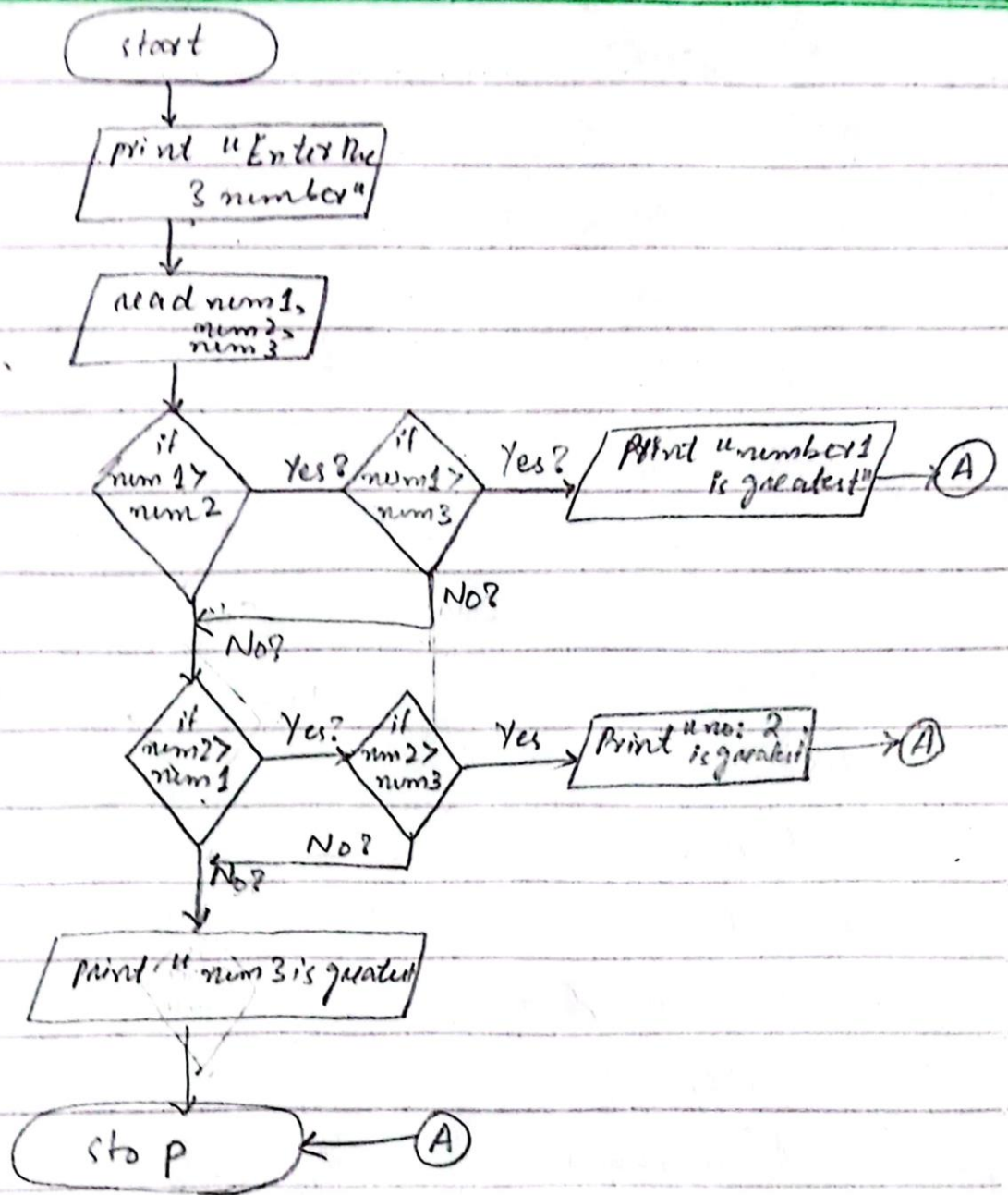
Question 3

Algorithm

1. Start
2. Ask the user for the first, second and third numbers
3. Take the numbers as input
4. If number 1>number2 and number1>number 3
Then print number 1
5. Else if number 2> number3 and number 2> number 1
Then print number 2
6. Else print number 3
7. Stop

Pseudocode

1. Start
2. Display "enter the 3 numbers"
3. Read num1, num2, num3
4. If num1>num2 && num1>num3
Then display "the greatest number is:", num1
Else if num2>num3 && num2>num1
Then display "the greatest number is", num2
Else
Display"the greatest number is:", num3
5. Stop



Question 1

Algorithm

1. Start
2. Greet the customer
3. Show the customer the menu
4. Ask the customer their order
5. Tell the customer about the availability of the item
6. Ask the customer about add ons
7. Calculate the bill
8. Ask the customer for cash
9. Check if change needs to be given or cash is insufficient
10. Thank the customer
11. End

Pseudocode

1. Start
2. Display "welcome to our restaurant"
3. Display "here's the menu"
4. Read order
5. If order=="available"
 Then display "your order has been placed"
Else
 Display "item unavailable please order again"
 Goto step 4
6. Display "any add ons you'd like to have?"
7. Read answer

8. If answer=="yes"

 Display "what add ons would you like?"

 Read add_on

Else

 Display "your order is done"

9. Calculate bill

10. Get cash

11. If cash==bill

 Then display "thankyou, your order will shortly be
 given to you"

 Else if cash>bill

 Then change=cash-bill

 Display"here's your change of rupees",change

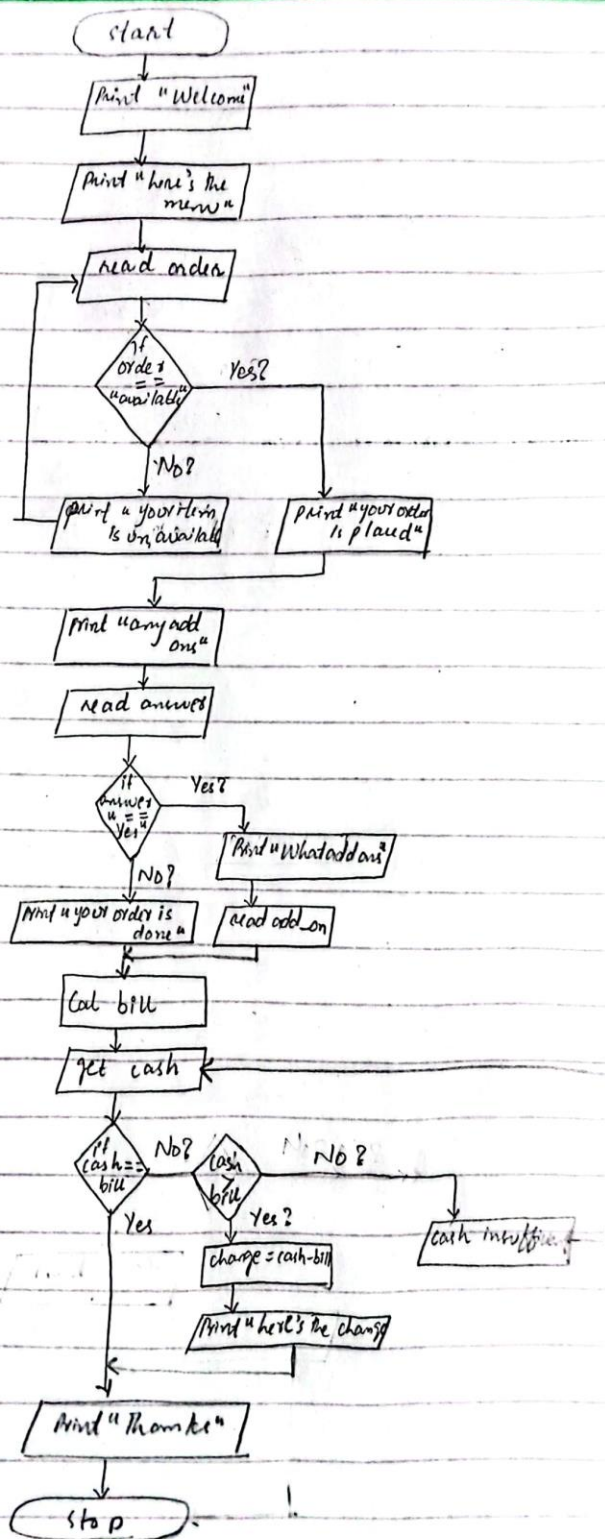
 Else

 Display"cash insufficient"

 Goto step 10

 End if

12. End



Question 4

ALGORITHM

1. Start
2. Read number from user
3. Check If $\text{number} \geq 1$ AND $\text{number} \leq 12$
 If yes then proceed to the next step
 If no then print invalid number
4. Check if $\text{number} == 1$
 Print JANUARY
5. Else check if $\text{number} == 2$
 Print FEBRUARY
6. Else check if $\text{number} == 3$
 Print march
7. Else check if $\text{number} == 4$
 Print APRIL
8. Else check if $\text{number} == 5$
 Print MAY
9. Else check if $\text{number} == 6$
 Print June
10. Else check if $\text{number} == 7$
 Print July
11. Else check if $\text{number} == 8$
 Print august
12. Else check if $\text{number} == 9$
 Print September
13. Else check if $\text{number} == 10$
 Print October
14. Else check if $\text{number} == 11$

Print November

15. Else print December

16. stop

Question 5

PSEUDOCODE

1. START
2. Read num1, num2, operator
3. If operator=='+'
 - Then sum=num1+num2
 - Display "the answer is", sum
- Else
 - Subtract=num1-num2
 - Display "the answer is" , subtract
4. stop

Question 7

ALGORITHM

1. START
2. Read num1, num2, operator from the user
3. Check If operator is equal to '+'
 Then $\text{sum} = \text{num1} + \text{num2}$
 Print "the sum is", sum
4. Else check if operator is equal to '-'
 Then $\text{subtract} = \text{num1} - \text{num2}$
 Print "the answer is", subtract
5. Else check if operator is equal to '/'
 Then check if num2 is equal to 0
 Print not divisible by 0
 Else
 $\text{Div} = \text{num1} / \text{num2}$
 Print "the answer is", div
6. Else check if operator is equal to '*'
 Then $\text{product} = \text{num1} * \text{num2}$
 Print "the answer is", product
7. Else Print "invalid operator"
8. stop

Question no:9

Why we use .gitignore?

Answer:

We use “.gitignore” files to tell git what files to ignore when tracking changes

- First it avoids clutter by ignoring temporary files which are not essential for version control. There are also certain files with some private information such as files with API keys and .gitignore ensures that these aren't accidentally committed.
- It also improves the performance of git by increasing its speed.
- Using .gitignore file as a text file, that specifies git which files to ignore, also reduces the size of your repository.

Question 10:

Difference between an algorithm and pseudocode.

Answer:

Algorithm:

An algorithm is a step by step instructions process to solve a problem/task. Algorithms are described in natural language and provide a high level view of the process. They aren't tied to any specific programming language or syntax. An algorithm is abstract, focusing on general ideas.

Pseudocode:

Pseudocode can be explained as the simplified version of programming code which isn't specific to one particular language. It uses structured syntax and control structures. It is more specific than an algorithm as it uses actual code like constructs and notations. It looks more similar to actual code.