Task 1(Order At Restaurant)

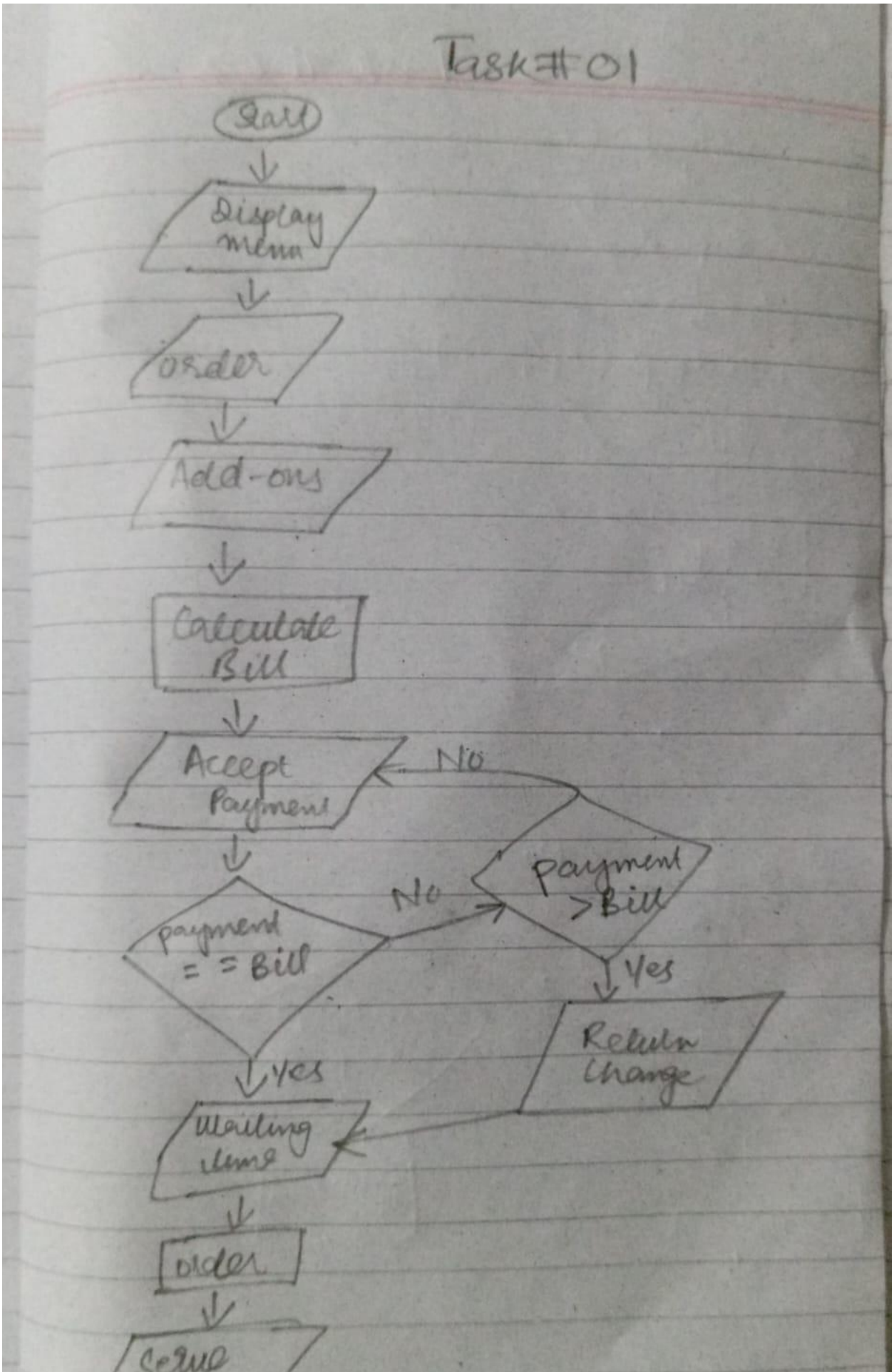
Algorithm

1. Show menu to customer
2. Take order from customer and ask add ons
3. Calculate bil=(sum of indiviualItemPrice * Quantity)+(Add-ons charges)
4. Accept payment from customer
5. Check if payment is equal to the bill amount, then ask customer to wait
6. If payment is greater than the bill amount, then return change and ask to wait
7. If payment is less than the bill amount then get difference from customer and ask customer to wait
8. Process the order
9. Server the order
10. Get customer feedback

Pseudo code

1. Start
2. Display menu
3. Read order and add ons
4. Calculate bill
5. Get payment
6. if payment > bill
7. Display change = payment - bill amount
8. Else if payment < bill
9. get payment
10. Display wait
11. Display order
12. Get feedback

Task#01


Start
Display menu
Order
Add-ons
Calculate Bill
Accept Payment
No
payment == Bill
No
payment > Bill
Yes
Return change
Yes
Waiting time
Order

Task 2(Cash deposition)

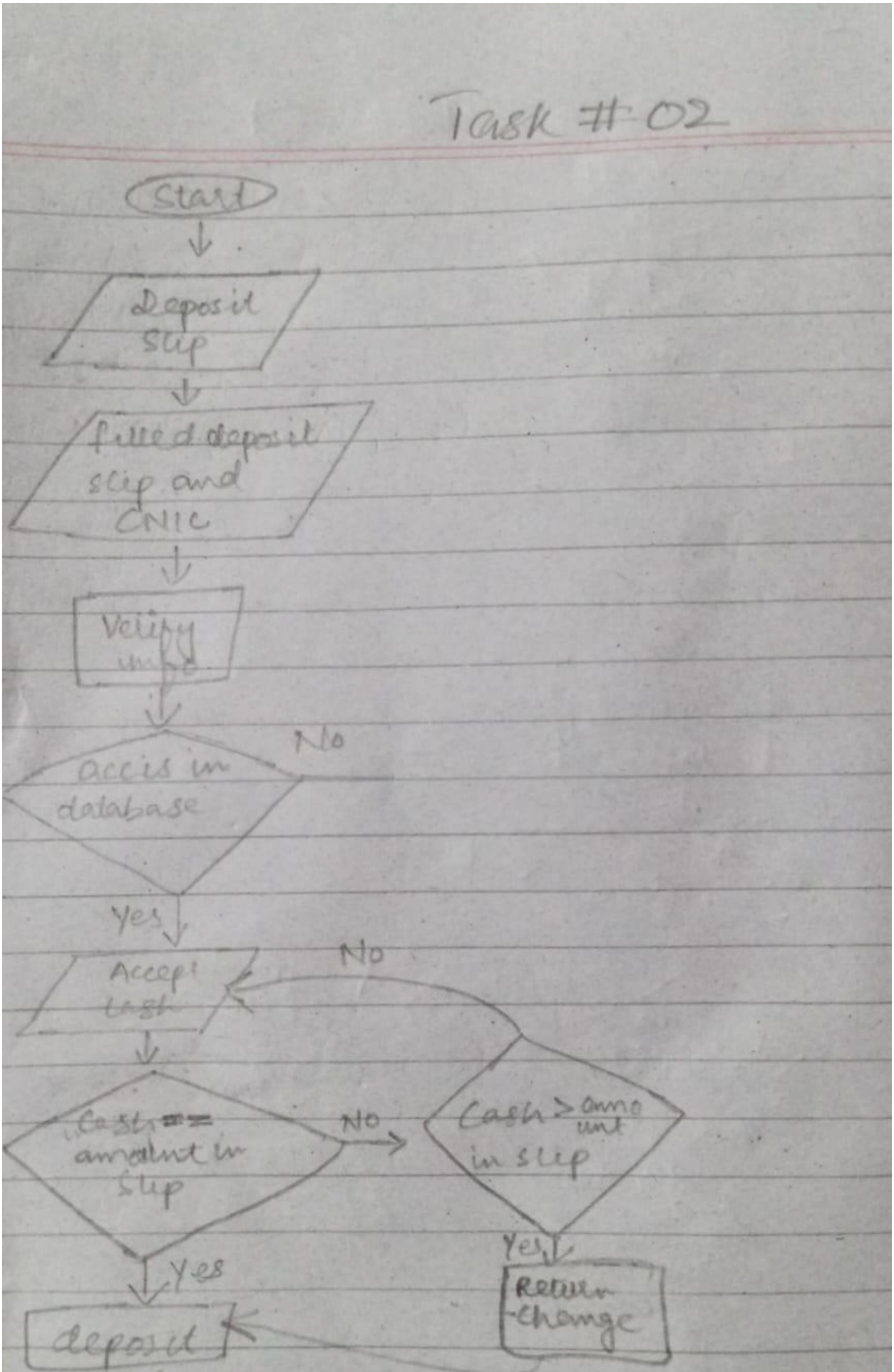
Algorithm

1) Give deposit slip to walk in customer
2) Ask customer to fill the slip and submit it with CNIC copy
3) Verify the details entered in the slip
4) Check whether the account exists in the database or not
5) If account exists in database, then accept cash and deposit
6) Otherwise ask customer to fill correct details

Pseudo code

1. Start
2. Display deposit slip
3. Read filled deposit slip and CNIC
4. If account exists,then
5. Read amount_ deposited
6. Else goto 12
7. If amount_deposited > amount entered
8. Display change = amount_deposited - amount entered
9. Else if amount_deposited < amount entered
10. Get amount
11. Display customer slip
12. End

Task #02


Start
Deposit slip
filled deposit slip and CNIC
Verify info
acc is in database
No
Yes
Accept cash
No
Cash == amount in slip
NO
Cash > amount in slip
Yes
Return change
Yes
deposit

Task 3(Greatest number)

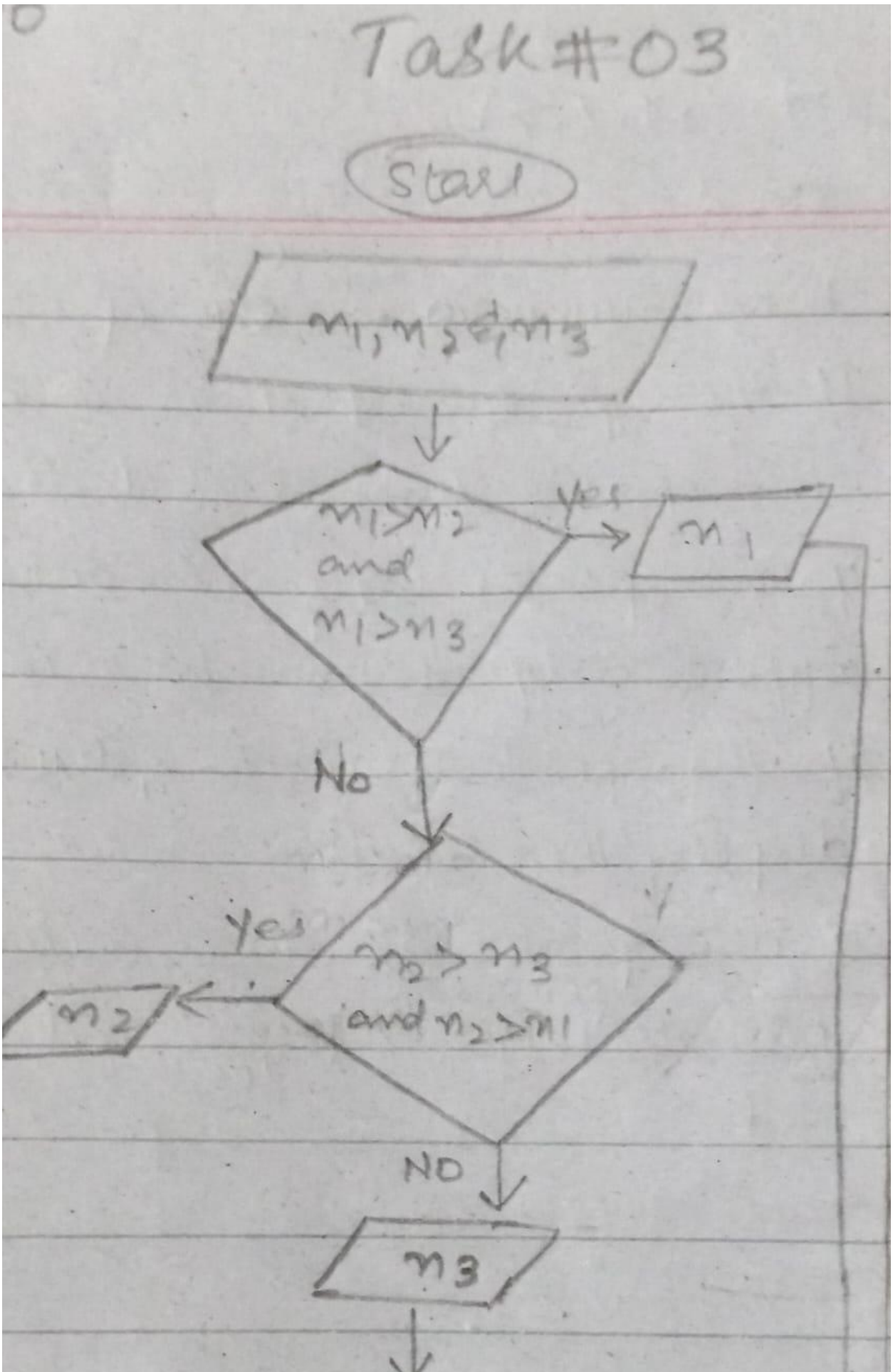
Algorithm

1. Take three numbers n1,n2 and n3 as input
2. If n1 is greater than n2 and n1 is greater than n3
3. n1 is greatest
4. If n2 is greater than n1 and n2 is greater than n3
5. n2 is greatest
6. Otherwise n3 is greatest

Pseudo code

1. Start
2. Read n1,n2 and n3
3. If,n1>n2 and n1>n3
4. Print n1
5. If n2>n1 and n2>n3
6. Print n2
7. Else print n3

Task#03



Task 4

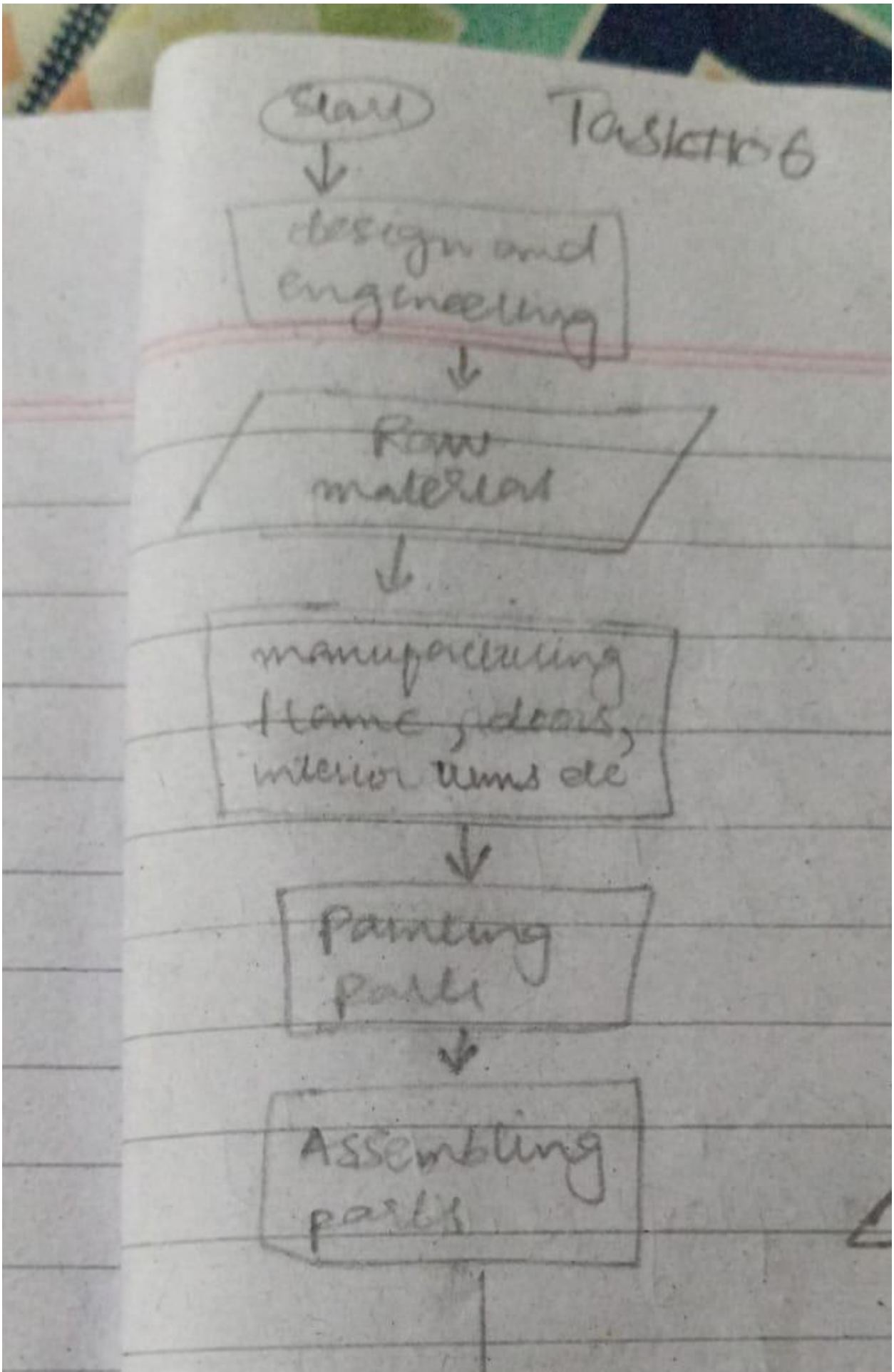
1. Take number as input
2. If number = 1, then display “January”
3. Else if number = 2, then display “February”
4. Else if number = 3 , then display “March”
5. Else if number =4 , then display “April”
6. Else if number = 5, then display “May”
7. Else if number = 6, then display “June”
8. Else if number = 7, then display “July”
9. Else if number = 8, then display “August”
10. Else if number = 9, then display “September”
11. Else if number = 10, then display “October”
12. Else if number = 11, then display “November”
13. Else if number = 12, then display “December
14. Elsr display “invalid number for month”

TASK 5

PSEUDO CODE

1. Start
2. Read n1,n2 and operator
3. If, operator is ‘+’
4. Set result = n1+n2
5. Else if operator is ‘-’
6. Set result = n1-n2
7. Print result
8. End

Task 6


Start
Tasktro 6
design and engineering
Raw material
manufacturing
Frame, doors, interior items etc
painting parts
Assembling parts

Task 7

1. Take numbers n1,n2 and operator as input
2. If,operator is “+” then calculate result = n1+n2
3. Otherwise if,operator is “-” then calculate result = n1-n2
4. Otherwise if,operator is “*” then calculate result = n1*n2
5. Otherwise if,operator is “/” then calculate result = n1/n2
6. Otherwise if,operator is “%” then calculate result = n1 modulo n2
7. Otherwise result = invalid operator
8. Display result

Task 9

An algorithm is a step-by-step procedure for solving a problem, expressed in human-readable language. Pseudocode, on the other hand, is a set of instructions that combines natural language and programming constructs to describe an algorithm.

Task 10

We use the .gitignore file to specify which files and directories Git should ignore, preventing them from being tracked or included in commits. This helps keep the repository clean by excluding unnecessary or sensitive files, like build outputs, temporary files, and configuration files.