Date

Task 01 (a)

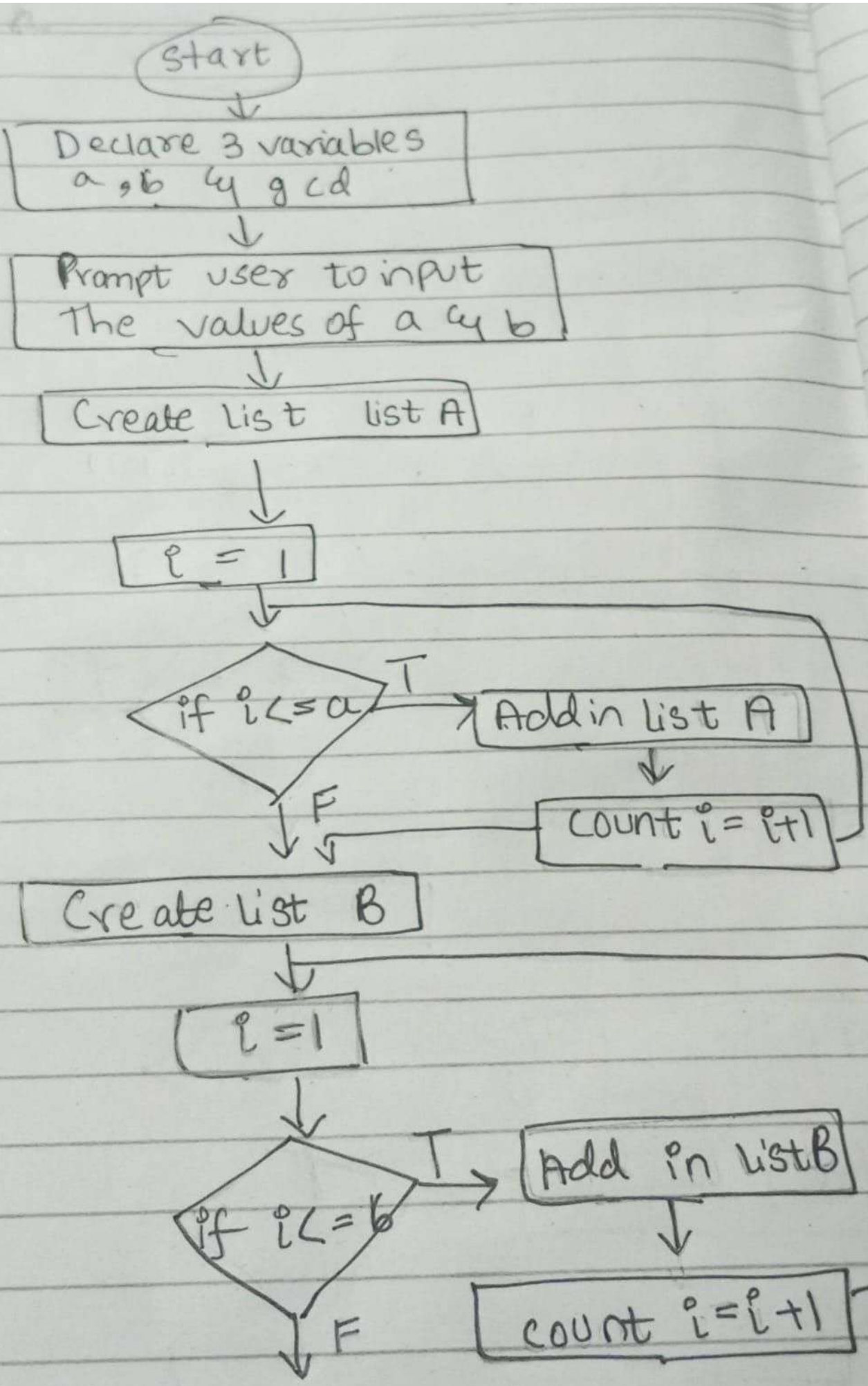
Part (a):-

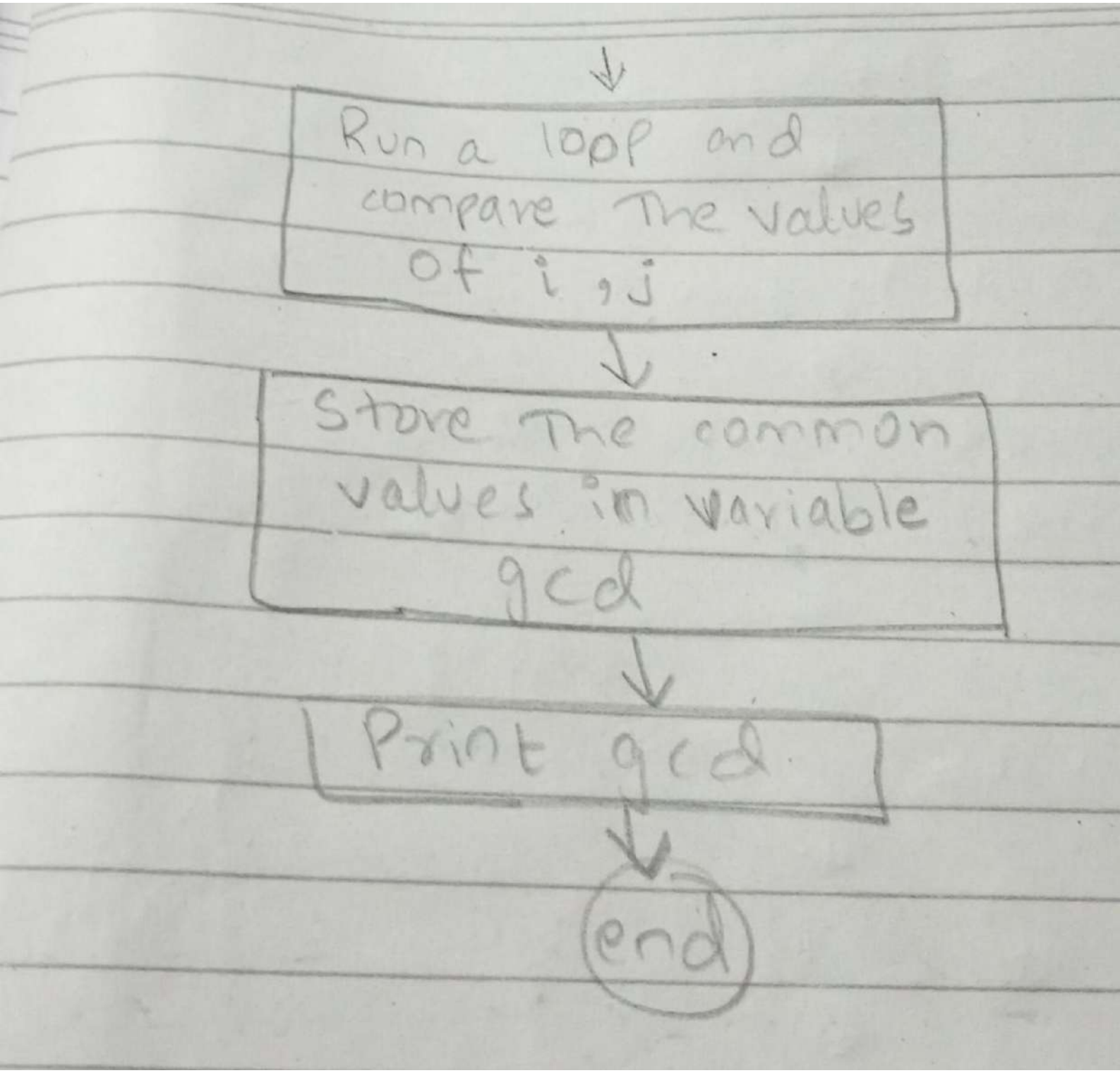
1. Declare 3 input variables a, b, gcd of type int
2. Prompt user to enter the values of a & b.
3. Initialize two empty lists listA and listB.
4. for loop (i=1, i<=a, i++)
5. if (a % i == 0)
6. append in list A.

7. for loop (i=1, i<=b, i++)
8. if (b % i == 0)
9. append in list B

10. for (i=0 to length of list A)
11. for (j=0 to length of list B)
12. if (listA[i] == listB[j])
13. gcd = i

14. Print gcd.


Start
Declare 3 variables a, b & gcd
Prompt user to input The values of a & b
Create list list A
i = 1
if i<=a
T
Add in list A
count i = i+1
F
Create list B
i = 1
if i<=b
T
Add in listB
count i = i+1
F

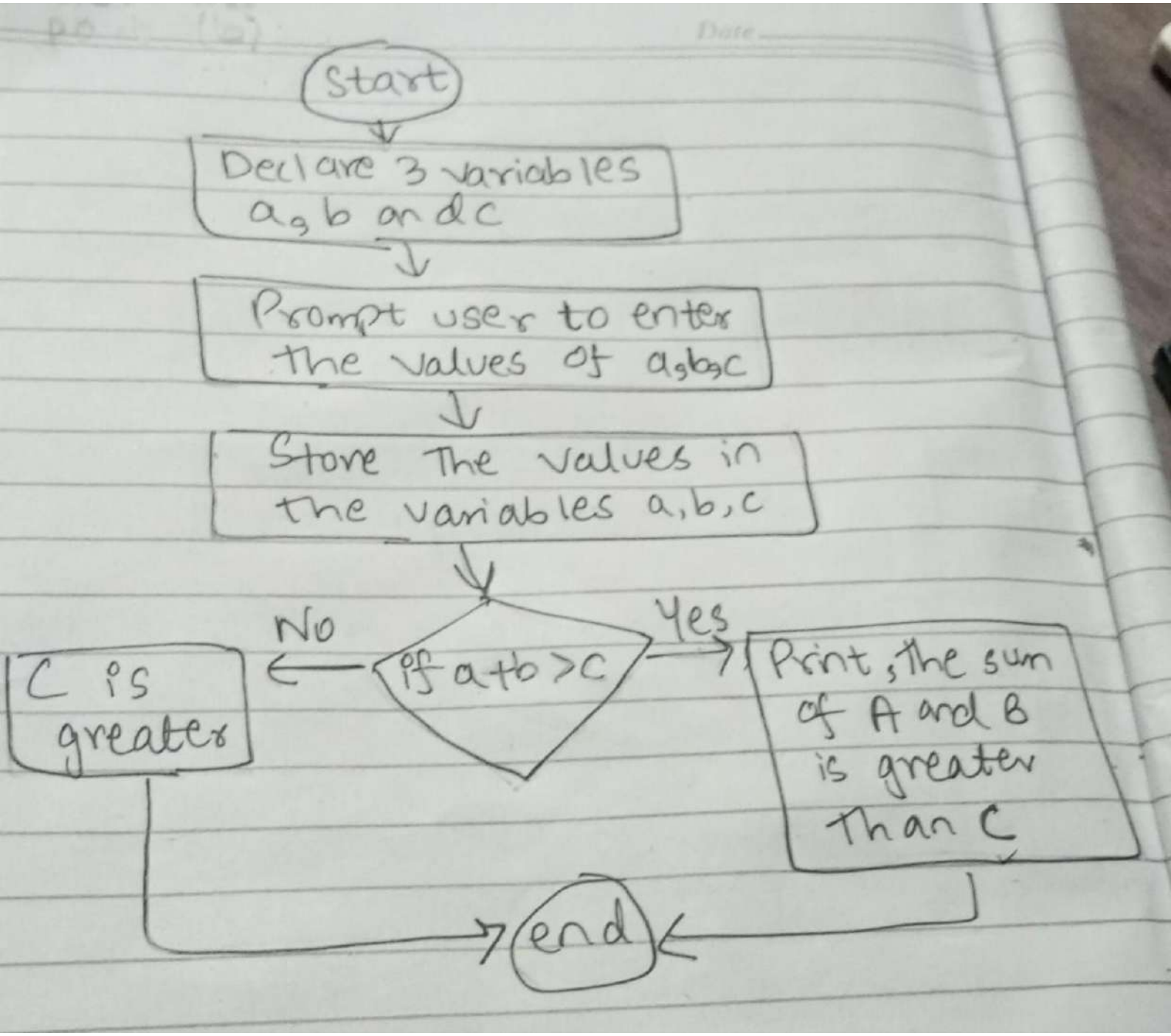

Run a loop and compare The values of i, j
Store The common values in variable gcd
Print gcd
end

Task 01(a):

Date

Part (b) :-

1. Declare 3 variables ; a , b , C
2. Prompt user to enter The value of A
3. Save input to variable a
4. Prompts user to enter The value of B
5. Save input to variable b
6. Prompt user to enter The value of C.
7. Save input to variable C
8. If a+b>C print "yes The sum of A and B is greater Than C.
9. Else "NO"
10. Return


Start
Declare 3 variables a, b and c
Prompt user to enter the values of a, b, c
Store The values in the variables a, b, c
if a+b > c
No
Yes
C is greater
Print, The sum of A and B is greater Than C
end

Date

Task 01 (a)
Part c

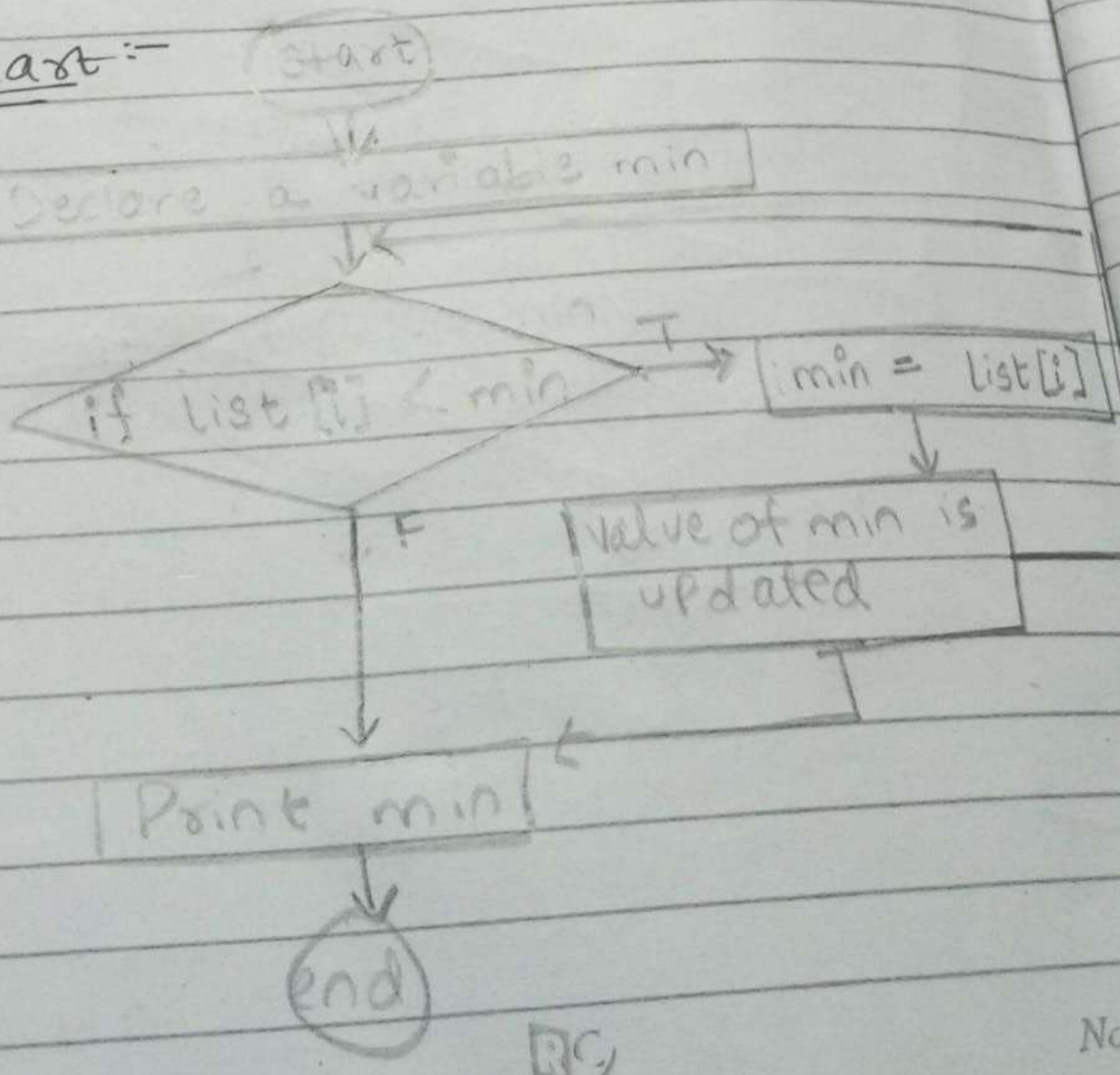
1. Declare a variable called "min"

2. Run a loop over the length of given list of numbers.

3. if list [i] < min :
4. ~~var~~ min = list [i]

5. print "min."

Flowchart :-

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Task 1 (d)

1. Initialize an array 'numbers' with 5 elements.

2. Declare a variable 'n' to 5.

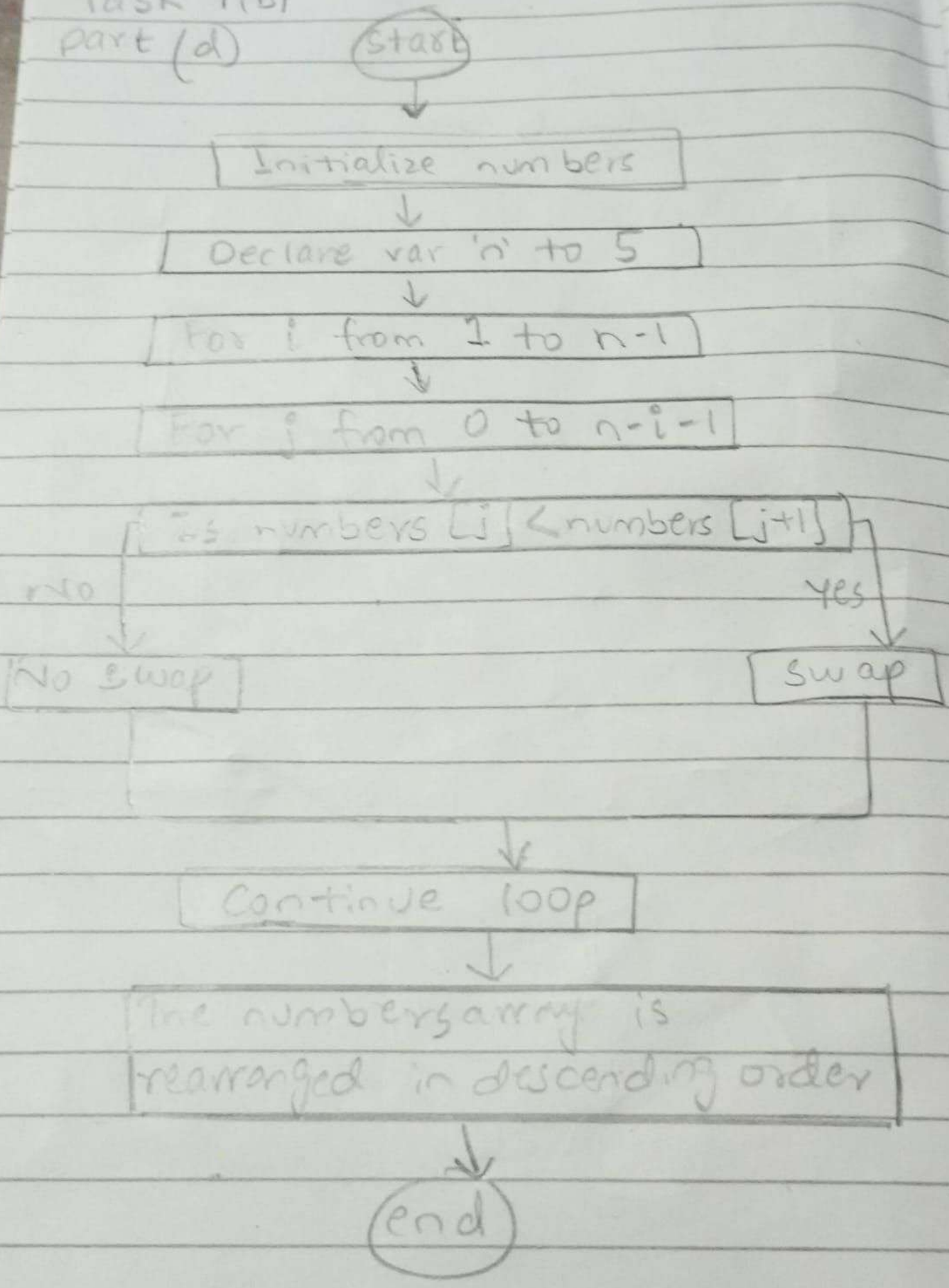
3. For 'i' from 1 to n-i, do This
   a. For 'j' from 0 to n-i-1, do This
      (i) If numbers[j] is less Than numbers '[j+1]', Then
         (i) Swap numbers [j] and 'numbers [j+1]'.

4. The 'numbers' array contains The descending list.

5. Print 'numbers'.

Date

Task 1(b)
part (d)



Task 1(a):
Part (e):

1. Declare two variables called 'even' and 'current'.

2. Run a loop over the length of the given list of numbers.

3. While iterating through the list, save each number in the variable 'current'.

4. ~~Take modulus of 'current' and if current~~

4. if (current % 2 == 0), increment. in the value of 'even' by 1.

5. When the list is finished, print even.

6. Return.

Task 1(b)
Part (e)