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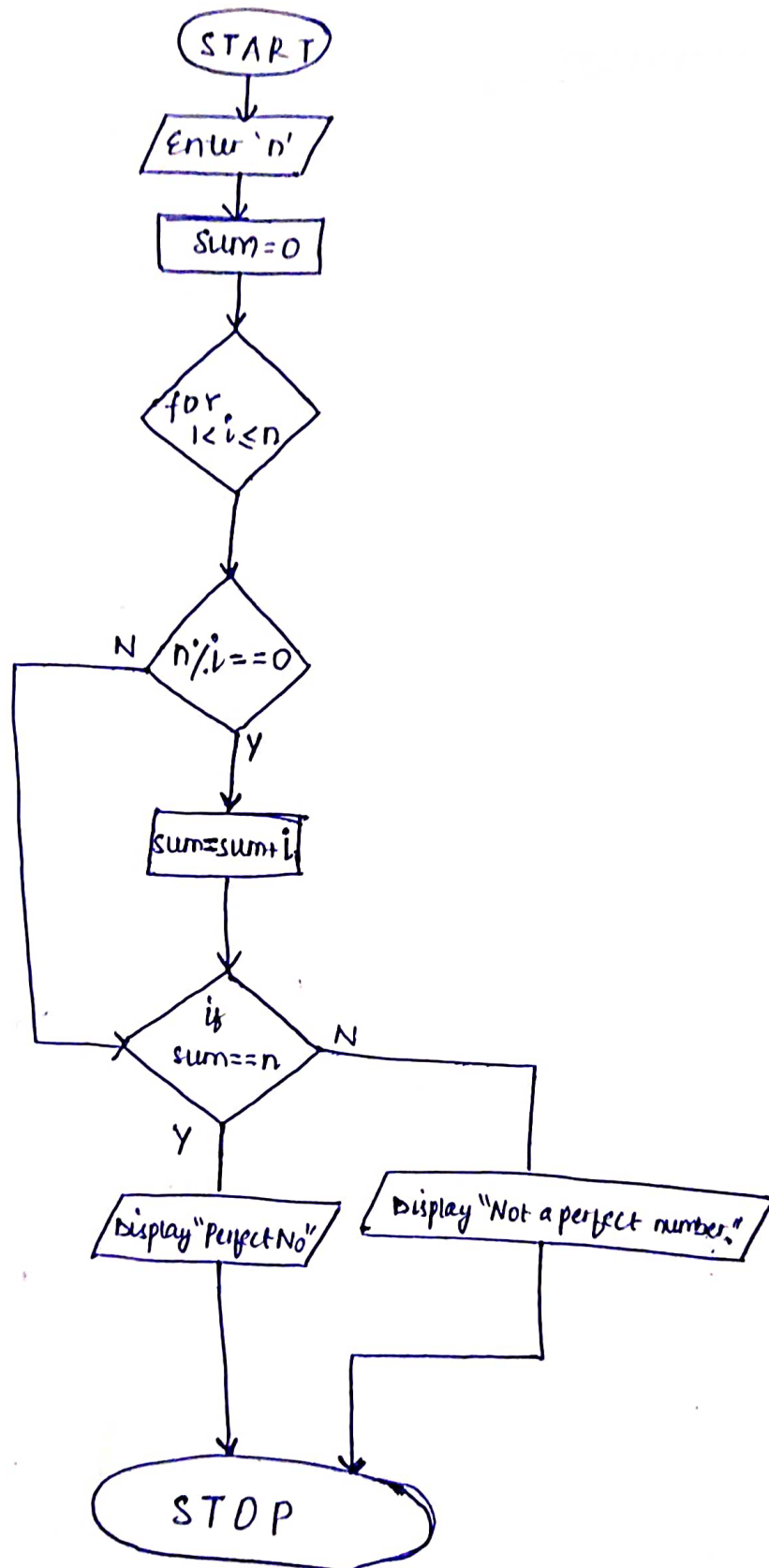
SEMESTER : 1

20BCE10093

1(a) ALGORITHM

①

- 1 Start
- 2 Enter the number you want to check 'n'.
- 3 Initialise sum to zero
- 4 ~~Start~~ Start a loop where the variable 'i' lies between 1 to n.
 - 4.1 Check whether n ~~is~~ is fully divisible by i.
 - 4.1.1 If yes, add i to sum.
 - 4.1.2 If no, exit step 4.
- 5 Check if sum is equal to n.
 - 5.1 If yes, display that it is a perfect number.
 - 5.2 If no, display that it is not a perfect number.
- 6 Stop.

1(a) FLOW CHART:

2 b # Input 5 numbers , c1=0 , c2=0
for i in range (0, 5, 1):
 n = int(input("Enter any number"))
 if (n >= 0):
 c1 = c1 + n
 else :
 c2 = c2 + n
print("sum of positive numbers : ", c1)
print("sum of negative numbers : ", c2)

(3)

>> OUTPUT ⇒

- 2
- 3
0
2
4

sum of positive numbers : 6

sum of negative numbers : -5

3(a) from array import *

```
a = array('i', [-5, 0, 3, 5, 15, 30, 37, 45])
c1 = 0
n = len(a)
for i in range(0, n-1):
    if ((a[i] % 3 != 0) and (a[i] % 5 == 0)):
        c1 = c1 + 1
print("Number of elements divisible by 3 and 5", c1)
```

>> OUTPUT →

5

4 {1, 2, 3, 4, 6, 7, 8, 9}

5 def evenno(n):
 if (n%2 == 0):
 print("Even number")

def oddno(n):
 if (n%2 != 0):
 print("Odd number")

def primeno(n):
 if n > 1:
 for i in range(2, n):
 if (n%i) == 0:
 print("Not a prime number")
 else:
 print("This is a prime number")
 else:
 print("This is not a prime number")

n = int(input("Enter any number"))
~~print("What do you want to check")~~
x = evenno(n)
y = oddno(n)
z = primeno(n)
print(x)
print(y)
print(z)

Output →

Enter any number = 11

>> oddnumber

>> This is a prime number.

_____ x _____ x _____ x