## Class - Pattern Problems

Concept

a warm Up Problem.

Pout o break & continue

Ternary operator

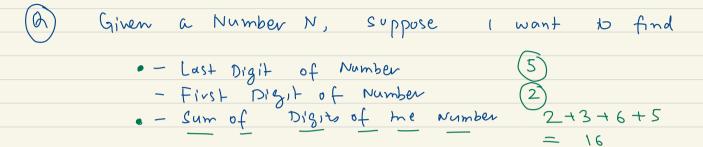
Multiple Inputs

o ++, -- operators (Inc-pec)

Paut o Pattern Problems

o + w & Doubts

Common & Mistalces



Input 
$$N = 2365$$

• 2356 Extract all the digita from given No Last-Digit While (N 70) { 23 56 sum = sum + qu'git N = N/10 2356 - 23543

Float 123.25 Another Approach N= 2356 2356 >10 235 710 710 Nwill reduce to sit single disit han)

SUM PONT +6+5 2 3 5 🛣 N Sum = 235 digit = N/10 5

N= N/10

$$n^{\text{modulo}}$$
 $n^{\text{modulo}}$ 
 $n^{\text{modulo}$ 

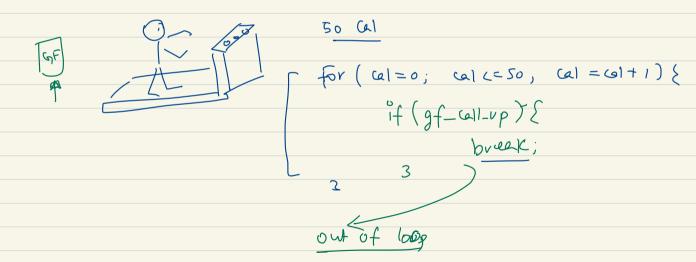
## BREAK

Ly of the loop

Ly of the loop

Ly Stop the loop as the Statement is executed.

based upon Certain Condition



1) loop (
2) loop (
3) loop (
wot a wop

break > nearest

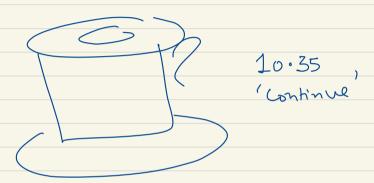
loop

Prime NO No divisors except I and N. ( Di'v) in range 2 to N-1 NOT PRIME Not prime  $\tilde{l}=2$ while (ic= N-1) { if (N % ) = = 0) { -> NOTPRIME

-> break, -

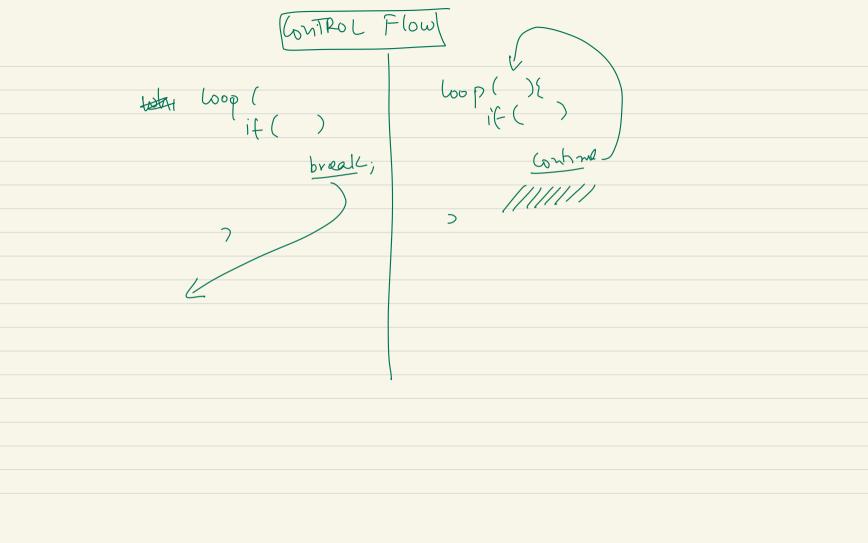
PRIME NOS IN RANGE 1-20

Print first N Primes



Continul Ly used inside a loop Ly control (exec flow) to the Stanting of the i=1while (ic= 20) { <- SKIP-> (1 12 13

14



```
Nex Class
                                            oternary of
                Pattern
                                            Switch Case
                                      ¥
                                       * *
           12
                                      * * *
                        456
            123
            1234
                                      * * * *
                         78 910
Warng N=4
                                      N-ispaces,
                                                Stars +2 =3
                           Stars Gi-1
                                             Ty= 1+(1-1)2
                                                = 1+21-2
            4-2
      1=3
                             5, 2(3)-1=5
7, 2(4)+=7
                                                  - 21-1
            4-3
      1=4
             4-4
```

$$T4 = T1 + 3d$$
  
=  $1 + 3(2)$   
=  $(7)$ 

$$T_{i} = T_{i} + (i-1)d$$

$$= 1 + (i-1)d$$

$$= 1 + 2i - 2$$

$$= 2i - 1$$

$$T_{0} = T_{1} + (1-1) d$$

$$= 5 + (i+1) 4$$

$$= 5 + (i-1) 4$$

$$= 5 + 4i - 4$$

$$= 4i - 4$$

$$= 4i - 4$$

$$= 4i - 4$$

$$= 4i - 7$$

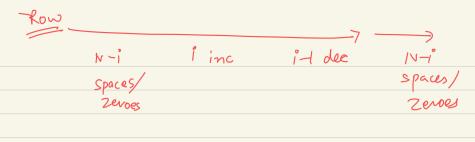
$$= 4i - 7$$

$$= 4i - 7$$

$$= 29$$

Add 2 it times Formula = 2i + 3

Assignment • 000010000 000232000 003454300 045676540 567898765 mat is i



1=1

1=2

$$|z|$$

$$A$$

$$i=2$$

$$AB$$

$$i=3$$

$$CCC$$

$$i=4$$

$$DDDD$$

$$SD & i + t mes$$

