Hello Everyone
-> Welcome to Icaley
-> Amon cumous > 9P university CSE
Scales (SA ord Subsuched > Sales (SA ord Subsuched > Sales (SA ord Subsuched > Scales (SA ord Subsuched > Scales (SA ord Subsuched > Sales (SA ord Subs
Today's Content:- > Count no g factous > Prime number
-> check if m is prome
→ Gaus Sum → Divide Num/2 till it greaches 1 → Sgx +
-> How to make best of course.
FDO's a) Notes will be uploaded right after lession
3) Assignments will be unlocked once
sersion ends
c) No dead line for arrighments.

d) no attendance during doubt sension
e) Language Independent, Elseudo cade3

Quore

I wanted the remaind and not the struggle.

I wanted the result and not the process.

I was not in love with the fight but only
the victory.

And life doesn't work that way.

```
Count no g factors
01: 91 4 a factor of 24 -> 24114 = 0 yes
N=10: $1, 2, 5, 103 -> 4
N=12: 21, 2, 8, 4, 6, 123 -> 6
   [a of 1] <- a
   int count Pactous (N) &
         int c=0',
          for (1=1) 1 <= N' 1++) {
           if (w), 1==0) & c=c+13
        return c',
                            108 iterations = 11 ec
         Enoitheresti
                     Time
  2
  10
           10
           108
   108
                      Lec
  109
          109
                      10 sec
   10'8
           1018
                      317 years.
```

108 item = 12ec 1 i test = 108 sec 109 item = 108 × 109 sec = 1080) 1018 item= 1018 Acc = 1010 sec. Optimize_ 1* J= N 12 I both one factors & v. J= 2 claim', if i is a factor of N. N/i is also factor a no

N=24	N= (00
, 2	i Ny;
1 < 34 +2 1<= >	1 < 100 +2
2 < 12 +2	2 < 50 +2
3 < 8 +2 P<= N	4 < 25 +2
4 4 6 +2 12= 50	5 < 20 +2
6 4	10 = 10 +2
8 3	20 5
12 2	25 4
24 '	50 2
	100
elhe s 3 gulun c',	50; i+x) {
3	
n itemations	Time
100 10	
1018 109	10120

9 mtes mediale :-

La Successing Observation Skills.
Leasur interesting Techniques.

Prime Nubers: - only 2 factors 1 & itself.

5, 9, 11, 1

Count factors == 2: Prime

> count factors == 2: Not Prime

usid check frime (N) &

int c=0;

for (i=1' i<= 50; i+1) {

3 (0==:1.00) 7;

if (1== N/1) { c= cn 3

else & C = C+2 1,3

3

else & Point (Not Poince) }

3

Tricks: - > haus Layer class. S= 1+2+3+ 100 S= 100+99+98+ +1 28= 101+101+101+ ... 101 28= (100)*(101) 8 = 100 + 101 11 Jum of first N natural nubers? S= 1+ 2+ 8+ 4+ ... N-2+ N-1+ N \$ = N+ (N-1) + (N-2) + 8 + 2 + 1 (1+11) + (1+11) + - ... (NA) 28= N + (N+1) 3 S= N+ (N+1)

a lo remos set be bushe toden of a to get b.

Jag 64 = 6

Jag 8 = 3

Jeg 27 = 3

Jeg2'0 = 3.94

Jeg 25 = 3

deg 33 = 5. Londling.

Jogge - 5 Jouettis

ره (۵٬۰) - 10

Jegan = n

Jag 3 = 5

N= 2° -> log_N= log_2° > 1092N = R

```
1/ Wiven + ue D, how many times, we
     need to divide it by 2, until it awaches = 1
         L> ENEXT Denion3
 N:
 2 -> 1time
 4 -> 2 -> 1 -> 2 hm
 8 -> 4 -> 2 -1 -> Stimes.
9
12
24
16
32
N ->
                          P 917.
         Break 10:03 pm - 10:13 pm.
```

Penfect Iquane

```
Criven N a leafest Iquous find Ique (N)

N = 25 \rightarrow 5

N = 36 \rightarrow 6

N = 49 \rightarrow 7

N = 30 \rightarrow 2 we will never get

invalid inputs 3

int Ique (N) 2

for (i=1;i<=N);i+1)?

if (i*i==n) { return i; }

3
```

amazon: Calculate itenahions: a) N b) N/2
c) Leg2N d) JD

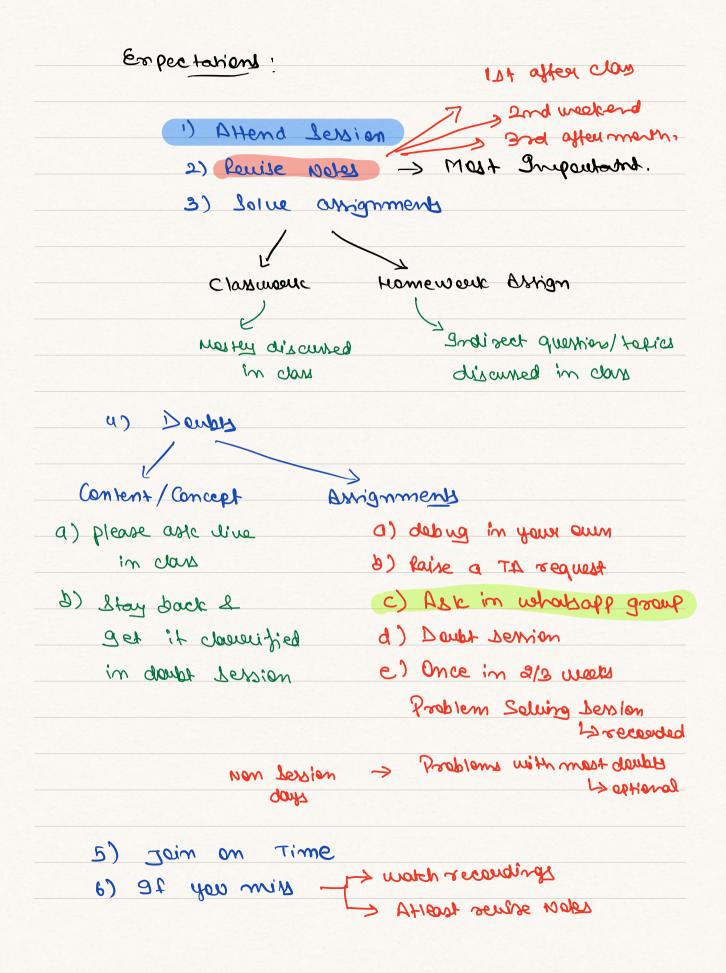
N=86: 1,2,8,4,5,6 N=64: 1,2,8,4,5,6,7,8 last w)

Note: 9f N is not perfect square, return floor (Uqrt) (n))

N=49 -> 7	3 cm topl
N 260 > 7	1=1', ans:1
N 2 31 -> 5	3 (m=> i*i) gliden
N=29 -> 5	ons= ii
N216 -> 4	1=1+1
10 - 16	suction as
	3

	N=50	N= 16
ì	i * i	i * i
	•	1
2	4	2 4
3	9	3 9
Ч	16	4 16
5	25	5 25
6	36	
1	49	gledations:
8	64	1: [1 to 5m+1]

1. 10.00	
290 too) -> In itelations.	
Lagan iterations.	
au	
Robince Module.	



8383803711 > whatapp.

- 12d (1
- 2) lesure
- 3) Tell me about yousey.
 - 4) (one Subjects -> cro, 02, DBM2,
 - B) Lysten Derign,