

Lecture 2 (2nd week)

24.01.22

for Loop statement:

☐

for i = 1:10
i

end

→ by default increment 1-88 28

→ by writing this code on Matlab we can print from i = 1 to 10

☐

for i = 1:2:10
i

end

→ increment

Thus we can print

from i = 1 to 10

1, 3, 5,

7, 9

2 88 increase 28

increase 28

Matlab - G F9 on evaluation Option - G click 88
1 to single line execution 888888

☐ c/c हिम line clear कर 88

examples

i = 1

i = 2

उदाहरण c/c हिम i = 1 clear 88
मात्र

Fibonacci series printing code: (Using for loop)

clc

clear → space नहीं रहे

$F_0 = 0$;

$F_1 = 1$;

$F_n = [F_0 \ F_1]$

for $i = 1:10$

sum = $F_0 + F_1$;

$F_n = [F_n \ \text{sum}]$; # row wise print

$F_0 = F_1$;

$F_1 = \text{sum}$;

~~end~~

end

display (F_n)

column wise print करते हैं जो same तरह

just $F_n = [F_n \ ; \ \text{sum}]$; - एकदम

मिथते हैं,

Fibonacci series print (Using while loop)

$n = 10;$

$F_0 = 0;$

$F_1 = 1;$

$F_n = [F_0, F_1]$ ~~# row-wise print~~

while $n > 1$

$sum = F_0 + F_1;$

$F_n = [F_n, sum];$ # row-wise print

$F_0 = F_1;$

$n = n - 1;$

end

display (F_n)

point
[Plotting কয়:]

$V_0 = 5;$

$q = 9.81;$

$L = \text{linspace}(0, 1, 10);$

→ এক্ষেত্রে ১০ টি element থাকবে
অতঃপর অন্য difference
same হবে ১ টি element
-এর point থেকে আরম্ভ
element - ০

$$g = v_0 * t - 0.5 * g * t.^2$$

```
plot (t, y);
xlabel ('t (s)');
ylabel ('y (m)');
```

plotting, symbolic -

ଓଡ଼ିଆ Programming for
computation Book
will be helpful Sir
said

Function:

Matlab - function - ଓଡ଼ିଆ name ଥିବା
ସଂସ୍କୃତି ସେଇ ନାମରେ ଫାଇଲ
ସଂରକ୍ଷଣ କରିବାକୁ ହେବ (must) .

function [a, b] = add - mul - 2 (x, y)

```
a = 2 + y;
b = x * y;
```

end

ଓଡ଼ିଆ run କରାଯିବ ଯଦି [a, b] = add - mul - 2 (10, 2) ଓଡ଼ିଆ ମିଳିବ ଓଡ଼ିଆ file

Function - ଓଡ଼ିଆ
direct run କରାଯିବ
ନାହିଁ, ନା, ~~run କରାଯିବ~~