

For-loop:-

Ans:

(Ex PGM):-

numList = [1, 2, 3, 4, 9, 16]

b = []

for i in numList:

b.append(i**2)

print(b)

O/p:-

[1]

[1, 4]

[1, 4, 9]

[1, 4, 9, 16]

[1, 4, 9, 16, 81]

[1, 4, 9, 16, 81, 256] .

For each:-

Ex pgm:

seq = [50, 25, 40]

lst = []

for x in seq:

lst.append(x+1)

Map (lambda x)

x+1, [50, 25, 40]

for x [x+1] [50, 25, 40]

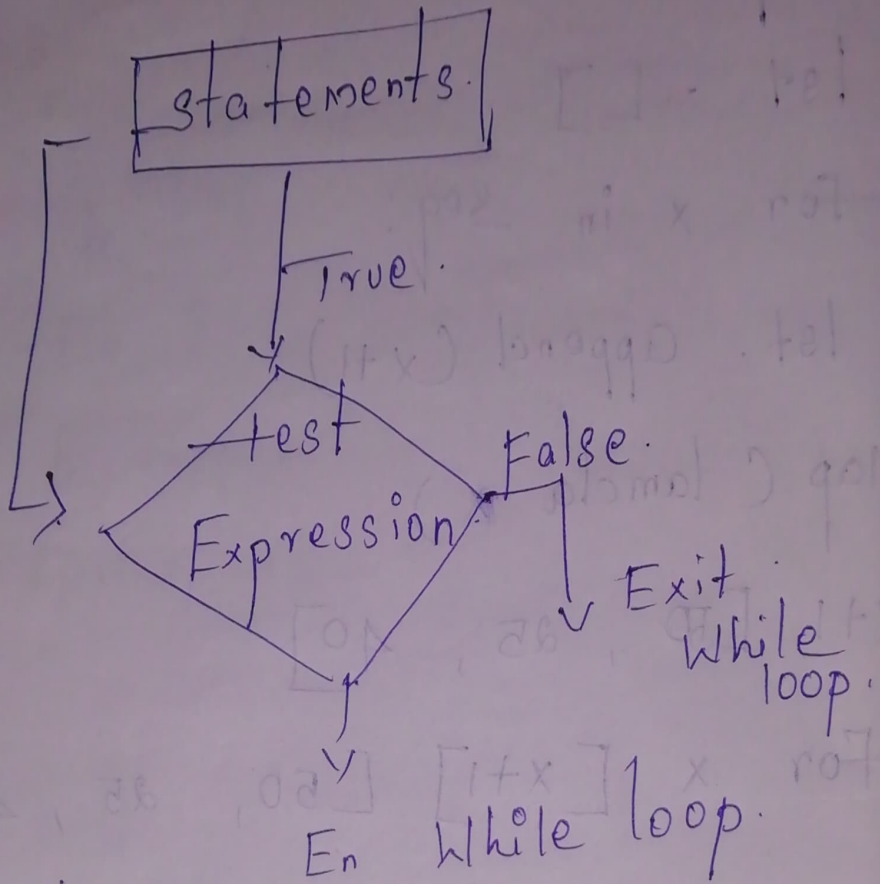
O/P:

51

26

41,

While-loop:-



Ex pgm:-

$x = 1$

While $x < 9$:

Print (x)

$x = x + 1$

if $x == 3$:

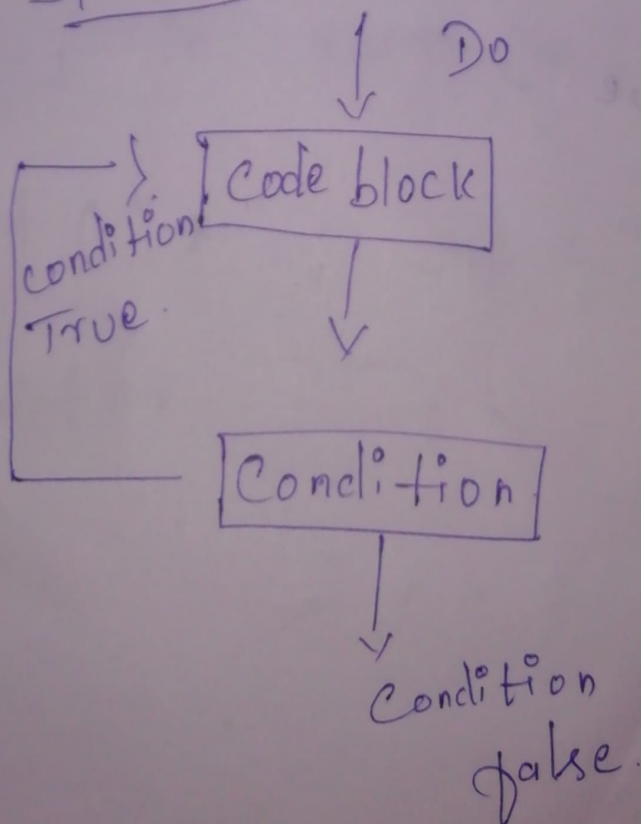
Continue.

O/P

1,
2
3
4
5
6
7
8 //

Do-While:-

Syntax:-



Ex - PAM

Do- While:

n = 1

While True:

if $n > 5$:

break

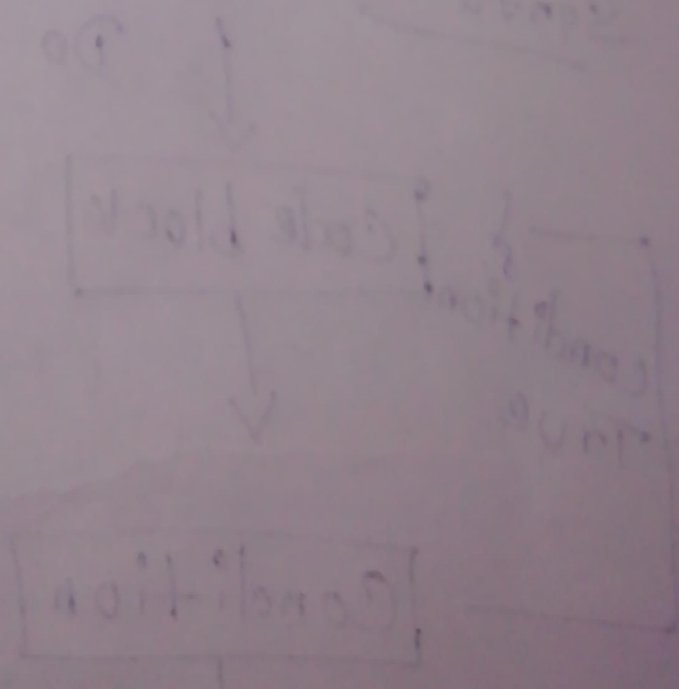
else:

Print (n)

$n = n + 1$

O/p...

True



① * → rows

Columns

```
*
 * *
* * *
* * * *
* * * * *
```

Ans:

Ex:

```
rows = int(input("enter the  
row value"))
```

```
for i in range(*, rows+*):
```

```
for j in range(*, i+*):
```

```
print(" * ", end = " ")
```

```
print()
```

O/p:

Enter the no. of
rows:.

★
★ ★
★ ★ ★
★ ★ ★ ★
★ ★ ★ ★ ★

②

1 ★ 3 ★
1 ★ 3 ★ 5
1 ★ 3 ★ 5 ★

For b in range (n, a)

print (b, end=' ')

print()

O/P: How many numbers are there b.

1
1 *
1 * 3
1 * 3 *
1 * 3 * 5
1 * 3 * 5 *

③

1
2 2

3 3

3

4 4 4 4

5 5 5 5 5

Sol:

~~rows~~

n = int(input("Enter the number
of rows : "))

for i in range(1, n+1):

for j in range(1, i+1):

print(j, end = " ")

print()

O/P:

Enter the no. of rows :

5

1

2 2

3 3 3

4 4 4 4

5 5 5 5 5

	0	1	2	3	4
0	1	1	1	1	1
1	2	2	2	2	2
2	3	3	3	3	3
3	4	4	4	4	4
4	5	5	5	5	5

sol:

```
num = int(input("enter the
number of rows:"))
```

```
for row in range(num):
```

```
for col in range(row+1):
```

```
print(val, end=" ")
```

```
print()
```

o/p:

Enter the no. of

1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5

5] 1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

Sol:

```
num = int(input("Enter the number  
of rows:"))
```

```
for row in range(num):
```

```
    for column in range(row+1):
```

```
        print(row),
```

```
        print(column),
```

O/P:-

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5