More on Loops

1. **Predict the Output**

**Send Feedback**

What will be the output of following code?

for i in range(1,5,2):

print(i,end=' ')

1. 1 3 //answer
2. **Predict the Output**

**Send Feedback**

What will be the output of following code?

for i in range(5):

print(i,end= ' ')

1. 01 2 3 4 //answer
2. **Predict the Output**

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What will be the output of following code?

i=1

while i<5:

if i==3:

break

print(i,end=" ")

i = i +1

1. 1 2 //answer
2. **Predict the Output**

**Send Feedback**

What will be the output of following code?

i=1

while i<3:

j=1

while j<5:

if j==3:

break

print(j,end=” “)

j = j + 1

i = i + 1

1. 1 2 1 2 //answer
2. **Predict the Output**

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What will be the output of following code?

i=1

while i<5:

if i == 6:

break

print(i,end=" ")

i = i + 1

else:

print(“Else is also printed”)

1. 1 2 3 4 Else is also printed
2. **Predict the Output**

**Send Feedback**

What will be the output of following code?

i=1

while i<5:

if i == 3:

break

print(i,end=” “)

i = i + 1

else:

print(“Else is also printed”)

1. 1 2 //answer
2. **Predict the Output**

**Send Feedback**

What will be the output of following code?

i=1

while i<5:

if i==3:

continue

print(i,end=" ")

i = i + 1

1. 1 2 Infinite Loop //answer
2. **Predict the Output**

**Send Feedback**

What will be the output of following code?

i=1

while i<3:

j=0

while j<5:

j = j +1

if j==3:

continue

print(j,end=” “)

i = i +1

1. 1 2 4 5 1 2 4 5 //answer

Assignment

1. **Binary Pattern**

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#### Print the following pattern for the given number of rows.

##### Pattern for N = 4

1111

000

11

0

Input format : N (Total no. of rows)

Output format : Pattern in N lines

##### Sample Input :

5

##### Sample Output :

11111

0000

111

00

1

1. **Print Number Pyramid**

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#### Print the following pattern for a given n.

##### For eg. N = 6

123456

23456

3456

456

56

6

56

456

3456

23456

123456

##### Sample Input 1 :

4

##### Sample Output 1 :

1234

234

34

4

34

234

1234

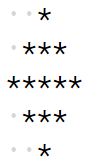
1. **Diamond of Stars**

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#### Print the following pattern for the given number of rows.

##### Note: N is always odd.

##### Pattern for N = 5



#### The dots represent spaces.

##### Input format :

N (Total no. of rows and can only be odd)

##### Output format :

Pattern in N lines

##### Constraints :

1 <= N <= 49

##### Sample Input 1:

5

##### Sample Output 1:

\*

\*\*\*

\*\*\*\*\*

\*\*\*

\*

##### Sample Input 2:

3

##### Sample Output 2:

\*

\*\*\*

\*

1. **Rectangular numbers**

**Send Feedback**

#### Print the following pattern for the given number of rows.

##### Pattern for N = 4

4444444

4333334

4322234

4321234

4322234

4333334

4444444

Input format : N (Total no. of rows)

Output format : Pattern in N lines

##### Sample Input :

3

##### Sample Output :

33333

32223

32123

32223

33333

1. **Print the pattern**

**Send Feedback**

#### Print the following pattern for the given number of rows.

##### Pattern for N = 5

1 2 3 4 5

11 12 13 14 15

21 22 23 24 25

16 17 18 19 20

6 7 8 9 10

Input format : N (Total no. of rows)

Output format : Pattern in N lines

##### Sample Input :

4

##### Sample Output :

1 2 3 4

9 10 11 12

13 14 15 16

5 6 7 8