Fourth Industrial Revolution (4IR) Summer School

Python Programming – Day 2 exercises

Loops

Question 1 [Sum of even numbers]

Write a Python program to read an integer number **N** from the user and then finds the summation of all even numbers between 1 to **N**.

```
Enter the number: 11
Sum of all even numbers between 1 to 11 = 30
```

Question 2 [Integer manipulation]

Write a Python program to read an integer number from the user and then prints the following:

- Count number of digits
- Sum of digits
- Number reverse

```
Enter any number: 1234
Total digits: 4
Sum of digits = 10
Reverse = 4321
```

Question 3 [Positive number doubling]

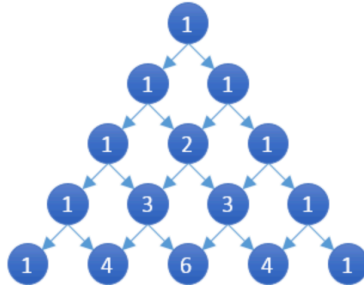Write a Python program to read an integer number **N** from the user.

Then, For all non-negative integers $\mathbf{i < N}$ print i^2

```
Enter any number: 4
0 1 4 9
```

Question 4 [Pascal Triangle]

Pascal triangle is a triangular number pattern named after famous mathematician Blaise Pascal.

For example, the Pascal triangle for 5 rows

Write a Python program to print the **pascal triangle** up to **N** rows