for loop:

A for loop in Python is used to iterate over a sequence (such as a list, tuple, string, or range) and execute a block of code multiple times. It's especially useful when you know the number of iterations beforehand or need to process elements in a sequence.

Basic Syntax:

1) print odd value between 20 and 80, without using if.

```
In [1]: for num in range(21, 81, 2):
             print(num)
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In [ ]:
```

2) creat a list of 1 to 20 number using for loop [1,2,3..20]

```
In [6]: numbers =[]
    for num in range(1, 21):
        numbers.append(num)

print(numbers)
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
```

3) create a list of 20 to 1 value using for loop (dont Use Reverse) [20,19,18,...3,2,1]

```
In [9]:    numbers = []
    for num in range(20, 0, -1):
        numbers.append(num)
    print(numbers)
[20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1]
```

4) take Cube of odd values between 20 to 4

5) take 5 freinds name in list name=[a,b,c,d,e] take corresponding ages in second list age = [20,21,23,25,24]