Problems in class

1. You are given 3 integer angles (in degrees) **A, B** and **C** of a triangle. You have to tell whether the triangle is valid or not.

A triangle is valid if sum of its angles equals to 180.

NOTE: You have to take the **input** of 3 sides of triangle from the user.

```
A = int(input())
B = int(input())
C = int(input())
if A+B+C == 180:
    print ("1")
else:
    print("0")
```

2. Write a program to input two numbers(**A & B**) from user and print the maximum element among A & B.

Problem Constraints

```
1 <= A <= 1000000
1 <= B <= 1000000
```

```
A = int(input())
B = int(input())
if 1 <= A <= 1000000 and 1 <= B <= 1000000:
    print(max(A,B))</pre>
```

3. You are given the Cost Price **C** and Selling Price **S** of a Product. You have to tell whether there is a Profit or Loss. Also, calculate total profit or loss.

NOTE: It is guaranteed that Cost Price and Selling Price are not equal.

Problems in class 1

NOTE: You have to take input of the **Cost Price(C)** and **Selling Price(S)** from the user.

Problem Constraints

```
C ≠ S
```

```
1 <= C, S <= 109
```

```
C = int(input())
S = int(input())
Profit = S-C
if 1<=C and S<= 10**9 and C != S and Profit > 1:
    print(1)
    print(S-C)
else:
    print(-1)
    print(-(S-C))
```

4. Given the number N, Categorise the number according to following condition: 1. Odd-Positive 2. Odd-Negative 3. Even-Positive 4. Even-Negative Note: Intention of problem is to teach you Nested If-Else, so try to solve this problem using nested if-else

Problem Constraints

10000 <= N <= 10000 except 0

```
N = int(input())
if -10000 <= N <= 10000 and N !=0:
    if N < 0 and N%2 == 0:
        print("Even-Negative")
    elif N > 0 and N % 2 == 0:
        print("Even-Positive")
    elif N < 0 and N % 2 != 0:
        print("Odd-Negative")</pre>
```

Problems in class 2

else: print("Odd-Positive")

Problems in class 3