

QUESTION

1. Ask user to input two number or keep them in variable num1 or num2
2. Swap those value or output the data
3. Allow to use one more variable to solve this question

- **Example**

- num1 = 5
- num2 = 10
- output should show num1 is 10, num2 is 5

IF STATEMENT (SELECTION)

if condition:

if condition is true, run this statement

else:

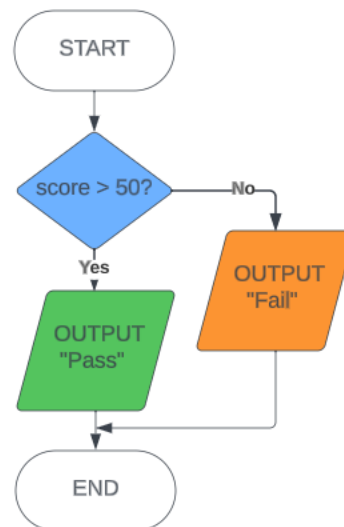
if condition is false, run this statement

if score > 50:

print('pass')

else:

print('fail')



```
1 score = int(input('Enter your score: '))
2 if score > 50 :
3     print('pass')
4 else:
5     print('fail')
```

```
Enter your score: 40
fail
```

QUESTION

- Ask user to input an integer
- check the number, it is even or odd number
- output the result

NESTED IF STATEMENT

```
1 print('Alcohol restrictions')
2 print('Buyers must be over 18 years old with id card')
3
4 age = int(input('How old are you: '))
5 id = input('Do you have ID (y/n): ')
6
7 if age >= 18:
8     if id == 'y':
9         print('Allow to buy')
10    else:
11        print('ID must be presented')
12 else:
13    print('Age must be 18 or over')
```

```
Alcohol restrictions
Buyers must be over 18 years old with id card
How old are you: 19
Do you have ID (y/n): n
ID must be presented
```

QUESTION

- ask the user to input a year or check if the year is leap year (29 days in February)

In the Gregorian calendar three criteria must be taken into account to identify leap years:

- The **year** can be evenly divided by 4;
- If the **year** can be evenly divided by 100, it is NOT a **leap year**, unless;
- The **year** is also evenly divisible by 400. Then it is a **leap year**.

