

Practice #4: if statement

Objectives:

- Understand and use line if statement
- Understand and solve errors and exception in Python

Steps:

1. Adulthood

- Make a program which can tell if the user is an adult or not. You should only use one-line if statement. Your program should be two lines maximum.

Input:

Enter your age: 19

Output:

You are an adult.

Input:

Enter your age: 15

Output:

You are a child.

2. Solve the following errors

- The following lines of code can sometimes raise errors. Fix them. Make as less as possible modification of the code.

Code 1:

```
input = int(input('Enter a number:'))
input2 = int(input('Enter another number:'))
```

Code 2:

```
a == 6
if a == 6:
    print('hello')
```

Code 3:

```
ask = bool(int(input('Do you want to make an calculation? (0/1)'))
if ask:
```

```
n = int(input('What is your number:'))
print('Your number mulltiply by two is: ', n*2)
```

Code 4:

```
a = 0
if a == 0: print("It's a zero"); print('I think')
```

3. Calculator optimised

- Make a program which two numbers from user and an operation (multiplication, addition, ...). You program should rise error if the user enters a text other than number or make an division by zero. You can use try and except.

Input:

Enter a number: 10

Enter a number: 2

Enter an operation (div/mul/add/sub): add

Output:

10 + 2 = 12

Input:

Enter a number: 10

Enter a number: 0

Enter an operation (div/mul/add/sub): div

Output:

Sorry, a division by zero is impossible.

Input:

Enter a number: ten

Enter a number: zero

Enter an operation (div/mul/add/sub): mul

Output:

Sorry, the first number you entered is not a number.

Sorry, the second number you entered is not a number.

Input:

Enter a number: ten

Enter a number: zero

Enter an operation (div/mul/add/sub): I don't know

Output:

Sorry, I don't know this operation.