



In Python, you can use `if`, `else`, and `elif` (short for "else if") statements to control the flow of your program based on different conditions. Here's a basic structure:

python

Copy code

```
if condition1:
    # code to be executed if condition1 is True
elif condition2:
    # code to be executed if condition1 is False and condition2 is True
else:
    # code to be executed if both condition1 and condition2 are False
```

Here's a simple example:

python

Copy code

```
x = 10

if x > 0:
    print("x is positive")
elif x == 0:
    print("x is zero")
else:
    print("x is negative")
```

In this example, the program checks whether `x` is greater than 0, equal to 0, or less than 0, and prints a corresponding message based on the condition that evaluates to True.

You can have multiple `elif` statements to check for different conditions, and the `else` block is optional. The `if`, `elif`, and `else` blocks are determined by indentation in Python, so be sure to maintain consistent indentation levels for proper code structure.



Code 1:

```
var1 = 6
var2 = 56
var3 = int(input("Enter No:"))
if var3 > var2:
    print("Greater")
elif var3==var2:
    print("Equal")
else:
    print("Lesser")
list1 = [5,7,3]
if 15 not in list1:
    print("No its not in the list")
print("What is your age?")
age = int(input())
if age<18:
    print("You cannot drive")
elif age == 18:
    print("We will think about you")
else:
    print("you can drive")
```

Output:

```
C:\Users\test\PycharmProjects\project_1\.venv\Scripts\python.exe C:\Users\test\PycharmProjects\project_1\Project_1.py
Enter No:21
Lesser
No its not in the list
What is your age?
11
You cannot drive
```



Calculator Updated Code with If-Else:

```
print("*****Welcome in the world of
calculator*****")
print("Enter you name: ")
name = str(input())
print("**** Welcome****", name, "Enjoy the
calculator")
print("enter first no:")
c1 = int(input())
print("enter second no:")
c2 = int(input())
print("enter operator + - * /:")
c3 = input()
if c3 == '+':
    num = c1 + c2
    print("the sum result:", num)
elif c3 == '-':
    num = c1 - c2
    print("the subtract result:", num)
elif c3 == '*':
    num = c1 * c2
    print("the multiply result:", num)
elif c3 == '/':
    num = c1 / c2
    print("the divide result:", num)
else:
    print("you have selected the wrong
operator")
```



Output:

```
C:\Users\test\PycharmProjects\project_1\.venv\Scripts\python.exe C:\Users\test\PycharmProjects\project_1\temp.py
*****Welcome in the world of calculator*****
Enter you name:
sam
**** Welcome***** sam Enjoy the calculator
enter first no:
21
enter second no:
21
enter operator + - * /:
+
the sum result: 42
```