

*Untitled - Notepad
File Edit Format View Help

Operators

10+2

10 and 2 are called operands/arguments
+ is called operator

1. Arithmetic Operators - numerical

+ - * /

% Modulus/Mod --> Remainder

a=10%2



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File Edit Format View Help

5 - Quotient
0 - Remainder

// Floor Division

2. Comparison/Relational Operators - boolean

>

< !=

>=

<=

== (Equality)

!= (Not Equal To)

3. Assignment Operator

=



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3. Assignment Operator

=

4. Logical Operators

and

or

not

and : The logical operator `and` joins 2 more conditions and returns true if all the given conditions are true. If any of the given condition is false, `and` will return false.

Truth Table

Ln 34, Col 11

120%

Windows (CRLF)

Type here to search



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$$T+T=T$$

$$T+F=F$$

$$F+F=F$$

or : The logical operator and joins 2 more conditions and returns true if any of the given condition is true. If all of the given conditions are false, or will return false.

Truth Table

I

$$T+T=T$$

$$T+F=T$$

$$F+F=F$$

Ln 34, Col 11

120%

Windows (CRLF)



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and returns true if any of the given condition is true. If all of the given conditions are false, or will return false.

Truth Table

$$T+T=T$$

$$T+F=T$$

$$F+F=F$$

I

The screenshot shows a Windows desktop environment. In the center is a code editor window titled "MyProject1". The editor displays a Python script named "c1.py" with the following content:

```
1 age=int(input('Enter Age '))
2 if age>=18:
3     print('Eligible To Vote')
4     print('Voting is on 1st March')
5     print('Voter Id is a must')
6 else:
7     print('Not Eligible')
8     print('Min age is 18')
```

The code uses Python's input function to get the user's age, then checks if it's greater than or equal to 18. If true, it prints three messages: "Eligible To Vote", "Voting is on 1st March", and "Voter Id is a must". If false, it prints "Not Eligible" and "Min age is 18".

At the bottom of the screen, the taskbar is visible with icons for File Explorer, Edge browser, File Manager, Task View, and a Python icon. The system tray shows the date and time as 8:27 CRLF UTF-8 4 spaces Python 3.11 (0).

MyProject1 Version control op10

c1.py if2.py op1.py op5.py op7.py op10.py op11.py

```
1 num=int(input('Enter a number '))
2 res=num/2
3 print('Division',res)
4 res=num//2
5 print('Floor Division',res)
6
7
```

MyProject1 > op1.py 7:1 CRLF UTF-8 4 spaces Python 3.1 22°C Haze ENG

The screenshot shows a Windows desktop environment. In the center is a code editor window titled 'op5.py'. The code inside the editor is a Python program that checks the number of digits in an input number. The code is as follows:

```
1 num=int(input('Enter a number '))
2 if num>=0 and num<10:
3     print('Single Digit Number')
4 elif num>=10 and num<100:
5     print('Double Digit Number')
6 elif num>=100 and num<1000:
7     print('Triple Digit Number')
8 else:
9     print('Out Of Range')
```

The code editor has several tabs at the top: 'c1.py', 'if2.py', 'op1.py', 'op5.py' (which is the active tab), 'op7.py', 'op10.py', and 'op11.py'. On the left side of the code editor, there are various icons for file operations like new, open, save, etc. At the bottom of the screen, the taskbar shows the start button, a search bar with 'Type here to search', and several pinned application icons. The system tray shows the date and time as '2:22 PM 21'.

c1.py if2.py op1.py op5.py op7.py x op10.py op11.py

```
1 per=float(input('Enter Percentage '))
2 if per>=75 and per<=100:
3     print('Distinction')
4 elif per>=60 and per<75:
5     print('1st Division')
6 elif per>=50 and per<60:
7     print('2nd Division')
8 elif per>=33 and per<50:
9     print('3rd Division')
10 elif per>=0 and per<33:
11     print('Fail')
12 else:
13     print('Invalid Percentage')
```

MyProject1 > op7.py

3:25 CRLF UTF-8 4 spaces Python 3

Type here to search



22°C Haze

EN

```
1 per=float(input('Enter Percentage '))
2 if per>=75 and per<=100:
3     print('Distinction')
4 elif per>=60 and per<75:
5     print('1st Division')
6 elif per>=50 and per<60:
7     print('2nd Division')
8 elif per>=33 and per<50:
9     print('3rd Division')
10 elif per>=0 and per<33:
11     print('Fail')
12 else:
```

The screenshot shows a Windows desktop environment with a code editor window open. The title bar of the window reads "MyProject1 - Version Control". The code editor displays a Python script named "op7.py". The script contains the following code:

```
print('2nd Division')
elif per>=33 and per<50:
    print('3rd Division')
elif per>=0 and per<33:
    print('Fail')
else:
    print('Invalid Percentage')
```

The code uses indentation to define four levels of logic: a single-line print statement, two elif blocks, one else block, and a final print statement. The code editor interface includes a left sidebar with various icons and a top menu bar with tabs for other files like "c1.py", "if2.py", "op1.py", "op5.py", "op10.py" (which is currently selected), and "op11.py". The status bar at the bottom of the window shows the file path "MyProject1 > op7.py", the time "3:25", and encoding information "CRLF UTF-8 4 spaces Python 3".

A screenshot of a Windows desktop environment. At the top, there's a taskbar with icons for File Explorer, Start, Task View, and other system icons. The main area shows a code editor window titled 'MyProject1 > op10.py'. The code editor has a toolbar with icons for file operations like Open, Save, and Print. Below the toolbar is a list of files in the project: c1.py, if2.py, op1.py, op5.py, op7.py, op10.py (which is currently selected), and op11.py. The code itself is a simple Python script:

```
1 branch=input('Enter available branch ')
2 fees=int(input('Enter fee per semester '))
3 placement=input('Placement options ')
4 if branch=='CS' and fees<10000 and placement=='Y' or placement=='y':
5     print('Good College')
6 else:
7     print('Not as per criteria')
```

The status bar at the bottom indicates the file path 'MyProject1 > op10.py', the time '5:26', and the encoding 'Python 3.11'.

A screenshot of a Windows desktop environment. In the center is a code editor window titled "MyProject1 > op11.py". The window displays the following Python script:

```
1 m1=int(input('Marks 1 '))
2 m2=int(input('Marks 2 '))
3 m3=int(input('Marks 3 '))
4 if m1>=50 or m2>=50 or m3>=50:
5     print('Pass')
6 else:
7     print('Fail')
```

The code uses integer input to get three marks from the user. It then checks if any of the marks are greater than or equal to 50. If at least one mark is 50 or higher, it prints "Pass"; otherwise, it prints "Fail". The script is written in Python 3.11, as indicated by the status bar at the bottom.

MyProject1 > op11.py

7:18 CRLF UTF-8 4 spaces Python 3.11



22°C Haze

ENG

```
1 username=input('Enter Username ')
2 if username=='admin':
3     password = input('Enter Password ')
4     if password=='123':
5         print('You can login')
6     else:
7         print('Invalid Password')
8 else:
9     print('Invalid Username')
```

```
if10.py if11.py x if12.py if13.py
1 price=float(input('Price '))
2 qty=float(input('Quantity '))
3 total=price*qty
4 if total<0:
5     print('Invalid Price/Qty')
6 else:
7     if total>=1 and total<500:
8         dis=0
9     elif total>=500 and total<1000:
10        dis=total*3/100
11    else:
12        dis=total*5/100
```

```
10     dis=total*3/100
11 else:
12     dis=total*5/100
13     net=total-dis
14     print('Total Bill',total)
15     print('Discount',dis)
16     print('Net Payable',net)
17
```

The screenshot shows a code editor window with a sidebar on the left containing project navigation icons. The main area displays a Python script named 'if11.py'. The script contains code to calculate a discount and print the total bill, discount, and net payable amount. A syntax error is indicated at line 12 with a yellow exclamation mark icon. The status bar at the bottom shows the file path 'MyProject1 > if11.py', the current time '12:24', and other system information.

MP MyProject1 Version control

if10.py if11.py if12.py if13.py

```
3 print('1. Hypertext Transfer Protocol')
4 print('2. Hyperterm Transfer Protocol')
5 ch=int(input('Enter your choice '))
6 if ch==1:
7     marks+=10
8     print('Q2. What is the full form of ASCII')
9     print('1. American Standard Corporate Information Interface')
10    print('2. American Standard Code For Information Interchange')
11    ch=int(input('Enter your choice '))
12    if ch==2:
13        marks+=10
14        print('Q3. What is the full form of SIM')
```

MyProject1 > if12.py 13:18 CRLF UTF-8 4 spaces Python 3.11 (MyProject1) 09:31 23°C Haze 05 03 2025 micromax

```
if10.py if11.py if12.py x if13.py
12 if ch==2:
13     marks+=10
14     print('Q3. What is the full form of SIM')
15     print('1. Short Instant Message')
16     print('2. Subscriber Identification Module')
17     ch=int(input('Enter your choice '))
18     if ch==2:
19         marks+=10
20     else:
21         print('Incorrect. Correct answer is Subscriber Iden
22     else:
23         print('Incorrect. Correct answer is American Standard')
```

13:18 CRLF UTF-8 4 spaces Python 3.11 (MyProject1)

MyProject1 > if12.py

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23°C Haze ENG 05-03-2025

MP MyProject1 Version control

if10.py if11.py if12.py x if13.py

```
18     if ch==2:
19         marks+=10
20     else:
21         print('Incorrect. Correct answer is Subsonic Ide
22     else:
23         print('Incorrect. Correct answer is American Standard (
24 else:
25     print('Incorrect. Correct answer is Hypertext Transfer Pro
26
27 print('You Scored',marks)
28
29
```

13:18 CRLF UTF-8 4 spaces Python 3.11 (MyProject1) 09:31
23°C Haze 05-03-2025

Type here to search

```
1 marks = 0
2 print('Q1. What is the full form of http')
3 print('1. Hypertext Transfer Protocol')
4 print('2. Hyperterm Transfer Protocol')
5 ch = int(input('Enter your choice '))
6 if ch == 1:
7     marks += 10
8 else:
9     print('Incorrect. Correct answer is Hypertext Transfer Protocol')
10
11 print('Q2. What is the full form of ASCII')
12 print('1. American Standard Corporate Information Interface')
```

MyProject1 > if13.py 25:16 CRLF UTF-8 4 spaces Python 3.11 (MyProject1) 09:31

Windows Start Task View File Edit View Insert Tools Options Help 23°C Haze ENG 09:31

```
if10.py if11.py if12.py if13.py x
16     marks += 10
17 else:
18     print('Incorrect. Correct answer is American Standard Code')
19
20 print('Q3. What is the full form of SIM')
21 print('1. Short Instant Message')
22 print('2. Subscriber Identification Module')
23 ch = int(input('Enter your choice '))
24 if ch == 2:
25     marks += 10
26 else:
27     print('Incorrect. Correct answer is Subscriber Identificat:')

MyProject1 > if13.py 25:16 CRLF UTF-8 4 spaces Python 3.11 (MyProject1) 09:31
Type here to search 23°C Haze micromax 05-03-2025 6
```

A screenshot of a Windows desktop environment. At the top, there's a taskbar with icons for Start, File Explorer, Task View, Edge browser, File Explorer, Task View, and a system tray icon. The main window is a code editor titled "if13.py" which is part of a project named "MyProject1". The file "if13.py" is currently open. The code in the editor is as follows:

```
26 else:  
27     print('Incorrect. Correct answer is Subscriber Identification')  
28  
29  
30     print('You Scored', marks)  
31  
32
```

The status bar at the bottom shows the path "MyProject1 > if13.py", the file encoding "UTF-8", and the Python version "Python 3.11 (MyProject1)". On the right side of the screen, there's a vertical decorative graphic of a colorful, abstract landscape.