

[C1113-OO-EX2][TahrehGholami-401114037180030]

x = 5

if x == 5 :

print('Equals 5')

اپراتورهای مقایسه ای

if x > 4 :

ایکس را مساوی 5 قرار دادیم.

print('Greater than 4')

اگر ایکس برابر با 5 بود پرینت کن (مساوی 5)

if x >= 5 :

اگر ایکس بزرگتر از 4 بود پرینت کن (بزرگتر از 5)

print('Greater than or Equals 5')

اگر ایکس بزرگتر مساوی 5 بود پرینت کن (بزرگتر یا مساوی 5)

if x < 6 : print('Less than 6')

اگر ایکس کوچکتر از 6 بود پرینت کن (کوچکتر از 6)

if x <= 5 :

اگر ایکس کوچکتر و مساوی 5 بود پرینت کن(کوچکتر یا مساوی 5)

print('Less than or Equals 5')

اگر ایکس نامساوی با 6 بود پرینت کن (نابرابر با 6)

if x != 6 :

print('Not equal 6')

The screenshot shows a Visual Studio Code window with a Python file named 'Comparison operators.py'. The code in the editor is as follows:

```
1 x = 5
2 if x == 5 :
3     print('Equals 5')
4 if x > 4 :
5     print('Greater than 4')
6 if x >= 5 :
7     print('Greater than or Equals 5')
8 if x < 6 : print('Less than 6')
9 if x <= 5 :
10    print('Less than or Equals 5')
11 if x != 6 :
12    print('Not equal 6')
13
```

The bottom panel shows the 'OUTPUT' window with the following text:

```
[Running] python -u "d:\1 درس ها \> جواب تمرین ها \> [C1113-OO-EX1][TahrehGholami-401114037180030] \Comparison operators.py"
Equals 5
Greater than 5
Greater than or Equals 7
Less than or Equals 7
Not equal 6

[Done] exited with code=0 in 0.981 seconds
```

The status bar at the bottom indicates the file is at line 13, column 1, with 4 spaces, using UTF-8 encoding and CRLF line endings. The Python version is 3.11.0 64-bit.

```
x = 5
```

```
if x < 2 :
```

```
    print('small')
```

```
elif x < 10 :
```

```
    print('Medium')
```

```
else :
```

```
    print('LARGE')
```

```
print('All done')
```

Multi - way

X را مساوی 5 قرار دادیم.

اگر ایکس کوچکتر از 2 بود پرینت کن (مساوی Small)

ولی اگر ایکس کوچکتر از 10 بود پرینت کن (Medium)

در غیراینصورت پرینت کن (Large)

در نهایت پرینت کن (تمام)

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists several Python files, including 'Multi - Way.py'. The main editor displays the code for 'Multi - Way.py', which is a multi-way conditional statement. The Output panel at the bottom shows the execution results, indicating that the program ran successfully and printed 'Medium' and 'All done'.

```
File Edit Selection View Go Run Terminal Help
Multi - Way.py - python - Visual Studio Code

EXPLORER
OPEN EDITORS
  Comparison operators.py D:\1 l...
  X Multi - Way.py D:\1 تمرین ها...
  COMMIT_EDITMSG .git
PYTHON
  ewq.py A
  ex3.py U
  increase.py U
  j1.py A
  Untitled-1.py A
  vdd.py A
  xs.py A

Multi - Way.py
1 x = 5
2 if x < 2 :
3     print('small')
4 elif x < 10 :
5     print('Medium')
6 else :
7     print('LARGE')
8 print('All done')
9

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Code
Less than or Equals >
Not equal 6

[Done] exited with code=0 in 1.232 seconds

[Running] python -u "d:\1 درس ها\برنامه سازی شی گرا\تمرین ها [C1113-00-EX1][TahrehGholami-401114037180030]\Multi - Way.py"
Medium
All done
[Done] exited with code=0 in 0.12 seconds

Activate Windows
Go to Settings to activate Windows.

Ln 9, Col 1 Spaces: 4 UTF-8 CRLF Python
```

for i in range(1,10):

print(i)

if i == 5:

break

این دستور میگه

برای i بین اعداد 1 تا 10

پرینت کن عدد رو و

اگر i مساوی و برابر با 5 بود کار رو تموم کن به این ترتیب اعداد از 1 تا 5 زیر هم نوشته می شود

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists several Python files. The main editor window displays a file named 'Indentation.py' with the following code:

```
1 for i in range(1,10):
2     print(i)
3     if i == 5:
4         break
```

The Output panel at the bottom shows the execution results of the script:

```
[Running] python -u "d:\1 جواب تمرین ها \C1113-00-EX1][TahrehGholami-401114037180030]\Indentation.py"
1
2
3
4
5
[Done] exited with code=0 in 0.238 seconds
```

The status bar at the bottom indicates the file is at Line 4, Column 14, with 4 spaces, using UTF-8 encoding and CRLF line endings. The system tray shows the date and time as 10:14 PM on 11/14/2022.

x = 20

if x > 1 :

print('More than one')

if x < 50 :

print('Less than 50')

print('All done')

در این دستور X مساوی 20 قرار می دهیم

اگر X بزرگتر از 1 بود پرینت کن بیشتر از 1

اگر X کوچکتر از 50 بود پرینت کن کمتر از 50

در آخر دستور پرینت کن پایان

The screenshot shows the Visual Studio Code interface. The Explorer panel on the left lists several Python files, with 'Nested Decisions.py' selected. The main editor displays the following Python code:

```
1 x = 20
2 if x > 1 :
3     print('More than one')
4     if x < 50 :
5         print('Less than 50')
6     print('All done')
7
```

The Output panel at the bottom shows the execution results:

```
[Done] exited with code=0 in 0.238 seconds

[Running] python -u "d:\1\درس ها\برنامه سازی شی گرا\جواب تمرین ها [C1113-OO-EX1][TahrehGholami-401114037180030]\Nested Decisions.py"
More than one
Less than 50
All done

[Done] exited with code=0 in 0.252 seconds
```

The status bar at the bottom indicates the file is at line 7, column 1, using UTF-8 encoding with CRLF line endings. The system tray shows the date and time as 10:46 PM on 11/14/2022.

x = 3

print ('Before 3')

if x == 3 :

print ('Is 3')

print ('Is Still 3')

print ('Third 3')

print ('Afterwards 3')

One-Way Decisions

تصمیمات یک طرفه

در این دستور X را مساوی عدد 3 قرار می دهیم

پرینت کن (قبل از 3)

اگر X برابر 3 بود

پرینت کن (هست 3)

پرینت کن (هنوز هست 3)

پرینت کن (سه هست 3)

پرینت کن (بعد از آن هست 3)

The screenshot shows the Visual Studio Code interface with a Python file named 'One-Way Decisions.py' open. The code in the editor is as follows:

```
1 x = 3
2 print('Before 3')
3 if x == 3 :
4     print('Is 3')
5     print('Is Still 3')
6     print('Third 3')
7 print('Afterwards 3')
8
```

The left sidebar shows the Explorer view with a list of files in the 'PYTHON' folder, including 'ewq.py', 'ex3.py', 'increase.py', 'j1.py', 'Untitled-1.py', 'vdd.py', and 'xs.py'. The bottom panel shows the Output window with the following text:

```
[Running] python -u "d:\1 درس ها \> جواب تمرین ها \> برنامه سازی شی گرا \> درس ها \> 1" [C1113-OO-EX1][TahrehGholami-401114037180030] > One-Way Decisions.py ...
Before 3
Is 3
Is Still 3
Third 3
Afterwards 3

[Done] exited with code=0 in 0.176 seconds
```

The status bar at the bottom indicates the file is on the 'master' branch, with 0 changes. The system tray shows the date and time as 11/14/2022, 10:58 PM, and the temperature as 14°C.

```
rawstr = input('Enter a number:')
```

try:

```
    ival = int (rawstr)
```

except:

```
    ival = -1
```

if ival > 0 :

```
    print ('Nice work')
```

else:

```
    print ('Not a number')
```

try – except error

در ورودی ("عددی را وارد کنید:")

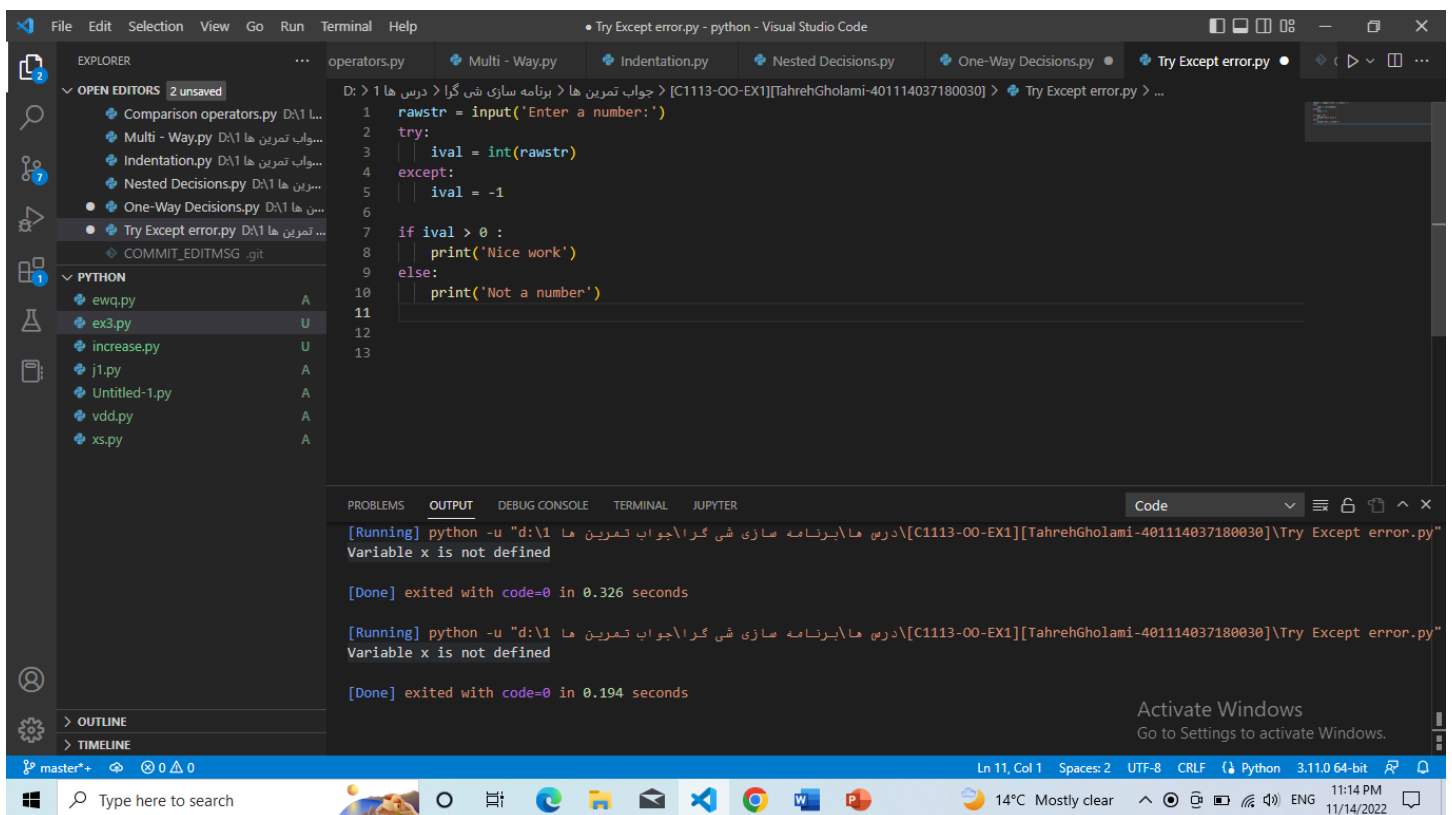
انجام بدید:

`ival = int(rawstr)`

بجز `ival = -1`

اگر: `ival > 0`: پرینت کن (کار خوب)

در غیر اینصورت: پرینت کن (عدد نیست)



try:

```
print("Hello")
```

except:

```
print ("Something went wrong")
```

else:

```
print ("Nothing went wrong")
```

try – except true

امتحان کن:

پرینت کن (سلام)

بجز:

پرینت کن (مشکلی پیش آمده)

در غیر اینصورت

پرینت کن (هیچ مشکلی پیش نیامده)

The screenshot shows the Visual Studio Code interface with a Python file named 'Try Except true.py' open. The code in the editor is as follows:

```
1 try:
2     print("Hello")
3 except:
4     print("Something went wrong")
5 else:
6     print("Nothing went wrong")
```

The left sidebar shows the Explorer view with a list of files in the 'PYTHON' section, including 'ewq.py', 'ex3.py', 'increase.py', 'j1.py', 'Untitled-1.py', 'vdd.py', and 'xs.py'. The bottom panel shows the Output view with the following text:

```
[Running] python -u "d:\1\گرا\جواب تمرین ها\درس\C1113-00-EX1\TahrehGholami-401114037180030\Try Except error.py"
Variable x is not defined

[Done] exited with code=0 in 0.194 seconds

[Running] python -u "d:\1\گرا\جواب تمرین ها\درس\C1113-00-EX1\TahrehGholami-401114037180030\Try Except true.py"
Hello
Nothing went wrong

[Done] exited with code=0 in 0.261 seconds
```

The status bar at the bottom indicates the current line and column as 'Ln 6, Col 30' and the file encoding as 'UTF-8'.

```
if x > 3 :
```

```
print('Bigger')
```

else :

```
print('Smaller')
```

```
print('All done')
```

به ازای x مساوی 5

اگر x بزرگتر از 3 بود پرینت کن (بزرگتر)

در غیر این صورت:

پرینٹ کن (کوچکتر)

پرینٹ کن (پایان)

The screenshot shows the Visual Studio Code editor with the following components:

- Explorer Panel:** Displays the file structure with folders for 'EXPLORER' and 'PYTHON'. The 'EXPLORER' folder contains files like 'Comparison operators.py', 'Multi-Way.py', 'Indentation.py', 'Nested Decisions.py', 'One-Way Decisions.py', 'Try Except error.py', 'Try Except true.py', and 'Two-Way Decisions.py'. The 'PYTHON' folder contains files like 'ewq.py', 'ex3.py', 'increase.py', 'j1.py', 'Untitled-1.py', 'vdd.py', and 'xs.py'.
- Editor Panel:** Shows the code for 'Two-Way Decisions.py'. The code is as follows:


```
D: > 1 درس ها 1 > > برنامه سازی شی گرا > جواب تمرین ها > [C113-00-EX1][TahrehGholami-401114037180030] > Two- Way Decisions.py > ...
1 x = 5
2
3 if x > 3 :
4     print('Bigger')
5 else :
6     print('Smaller')
7
8 print('All done')
9
```
- Terminal Panel:** Shows the output of the script execution. The output is:


```
[Done] exited with code=0 in 0.261 seconds

[Running] python -u "d:\1 درس ها\برنامه سازی شی گرا\جواب تمرین ها 1\[C113-00-EX1][TahrehGholami-401114037180030]\Two- Way Decisions.py"
Bigger
All done

[Done] exited with code=0 in 0.116 seconds
```
- Bottom Panel:** Shows the 'PROBLEMS' and 'OUTPUT' tabs. The 'OUTPUT' tab is active, showing the same output as the terminal panel.
- Status Bar:** Shows the current file is 'Two-Way Decisions.py' and the Python interpreter is 'Python 3.11.0 64-bit'.