

if-else statement

The if-else statement is a control structure that lets your program choose between two actions based on whether a condition is true or false.

markdown

```
age=18
if age>18:
    print("You are an adult.")
elif age==18:
    print("You are exactly 18 years old.")
else:
    print("You are a minor.")
# This code checks the age and prints a message based on the age category.
```


✓ 0.0s

Python

You are exactly 18 years old.




...

 .gitignore


☰ CACHEDIR.TAG

 README.md

```
> .vscode
```

 Day_1.py

Day-2_area of a rectan...

 Day-2.py

📄 Day-3.ipynb

Day-4.ipynb

Python 30 Days Challenge...

▼ OUTLINE

Day-4.ipynb ●

Day-4.ipynb > #Check if a user-entered number is prime

 Generate
  Code
  Markdown
 |
  Run All
  Restart
  Clear All Outputs
 |
  Jupyter Variables


```
marks=int(input("Enter your marks: "))
if marks >= 90:
    print("You got an A grade.")
elif marks >= 80:
    print("You got a B grade.")
elif marks >= 70:
    print("You got a C grade.")
elif marks >= 60:
    print("You got a D grade.")
elif marks >= 50:
    print("You got an E grade.")
else:
    print("You got an F grade.")
```

[5] ✓ 2.4s

... You got a D grade.



EXPLORER

 # %% [markdown].py ● *Day-3.ipynb*

Day-4.ipynb

✓ PYTHON 30 DAYS CHALLENGE...

▼ .pytest_cache

✓ v\cache


≡ stepwise

 .gitignore

☰ CACHEDIR.TAG

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```

 Day_1.py

🐍 Day-2_area of a rectan...

 Day-2.py

Day-3.ipynb

Day-4.ipynb

Python 30 Days Challenge

OUTLINE

No symbols found in document 'Day-4.ipynb'

Day-4.ipynb > #Print table 1 to 20 using nested while loop

Generate + Code + Markdown | Run All Restart

```
i=1
while i<=100:
    if i%2==0:
        print("Even number is:", i)
    else:
        print("Odd number is:", i)
    i += 1
```

[63] ✓ 0.0s

```
... Odd number is: 1
Even number is: 2
Odd number is: 3
Even number is: 4
Odd number is: 5
Even number is: 6
Odd number is: 7
Even number is: 8
Odd number is: 9
Even number is: 10
Odd number is: 11
Even number is: 12
Odd number is: 13
Even number is: 14
Odd number is: 15
```


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EXPLOLERER

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▼ PYTHON 30 DAYS CHALLENGE...

▼ .pytest_cache

▼ v\cache

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🔍 .gitignore

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🔍 Day_1.py

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🔍 Day-2.py

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📄 Python 30 Days Challe...

▼ OUTLINE

No symbols found in document 'Day-

%% [markdown].py

Day-3.ipynb

Day-4.ipynb

Day-4.ipynb >

#Print table 1 to 20 using nested while loop

Generate

+

Code

+

Markdown

|

▶ Run All

↺ Restart

≡ Clear All Outputs

|

📄 Jupyter Variables

≡ Outl

Output is truncated. View as a [scrollable element](#) or open in a [text editor](#). Adjust cell output [settings](#)...

#break Statement

#With the break statement we can stop the loop even if the while condition is true:

i=1

while i<=20:

if i==10:

break

print("Number is:", i)

i += 1

[64] ✓ 0.0s

...

Number is: 1

Number is: 2

Number is: 3

Number is: 4


Number is: 5

Number is: 6

Number is: 7









Number is: 8


Number is: 9

 # %% [markdown].py ● Day-3.ipynb

Day-4.ipynb

Day-4.ipynb > #Print table 1 to 20 using nested while loop

 Generate
  Code
  Markdown
 |
  Run All
  Restart
  Clear All Outputs
 |
  Jupyter Variables
  Outline
 ...

 base (Python 3.12.7)

```
##### For loop #####  
exp=[2000, 3000, 4000, 5000, 6000]  
for i in exp:  
    print("Expense is:", i)
```

[70] ✓ 0.0s

Python

```
... Expense is: 2000
Expense is: 3000
Expense is: 4000
Expense is: 5000
Expense is: 6000
```

```
exp=[2000, 3000, 4000, 5000, 6000]
total=0
for item in exp:
    total= total + item
print("Total expense is:", total)
```

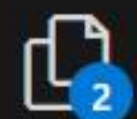
[71] ✓ 0.0s

Python

```
... Total expense is: 20000
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL** PORTS JUPYTER

$$+ \vee \dots \wedge \times$$
 Python 



EXPLORER



Python 30 Days Challen...

.pytest_cache

v\cache

stepwise

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OUTLINE

%% [markdown].py

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Day-4.ipynb > #Print table 1 to 20 using nested while loop

Generate + Code + Markdown | Run All Restart Clear All

```
for i in range(1, 11):
    print("Number is:", i*i)
```

[]

```
exp=[2000, 3000, 4000, 5000, 6000]
total=0
for i in range(len(exp)):
    print("Month", i+1, "expense is:", exp[i])
    total= total + exp[i]
print("Total expense is:", total)
```

[74] ✓ 0.0s

```
... Month 1 expense is: 2000
Month 2 expense is: 3000
Month 3 expense is: 4000
Month 4 expense is: 5000
Month 5 expense is: 6000
Total expense is: 20000
```




EXPLORER



▼ PYTHON 30 DAYS CHALLENGE

▼ .pytest_cache

▼ v\cache

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🔗 # %% [markdown].py ●

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📄 Day-4.ipynb > 🔗 #Print table 1 to 20 using nested while loop

🔖 Generate + Code + Markdown | ▶ Run All ↺ Restart ≡ C

[//] ✓ 0.0s

... Key is not in the garage
Key is not in the living room
Key is found in the chair



```
#Check if a user-entered number is prime
num = int(input("Enter a number: "))
for i in range(2, num):
    if num % i == 0:
        print(num, "is not a prime number.")
        break
else:
    print(num, "is a prime number.")
```

[79] ✓ 2.1s

... 23 is a prime number.

▼ OUTLINE