

Which one?

JavaScript VS Python ?



Variable Declaration



JAVASCRIPT

```
let x = 5;  
const y = 10;  
var z = 15; // older syntax
```

Uses 'let', 'const', or 'var' keywords.



PYTHON

```
x = 5  
y = 10  
z = 15
```

No declaration keyword needed.



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Function Definition

JAVASCRIPT

```
function greet(name) {  
    return `Hello, ${name}!`;  
}
```

```
// Arrow function  
const greet = (name) => {  
    return `Hello, ${name}!`;  
}
```


PYTHON

```
def greet(name):  
    return f"Hello, {name}!"  
  
# Lambda function  
greet = lambda name: f"Hello, {name}!"
```




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Conditional Statements


JAVASCRIPT

```
if (x > 0) {  
    console.log("Positive");  
} else if (x < 0) {  
    console.log("Negative");  
} else {  
    console.log("Zero");  
}
```

PYTHON


```
if x > 0:  
    print("Positive")  
elif x < 0:  
    print("Negative")  
else:  
    print("Zero")
```

Loops

 **JAVASCRIPT**

```
// For loop
for (let i = 0; i < 5; i++) {
  console.log(i);
}

// While loop
let i = 0;
while (i < 5) {
  console.log(i);
  i++;
}
```

 **PYTHON**

```
# For loop
for i in range(5):
    print(i)

# While loop
i = 0
while i < 5:
    print(i)
    i += 1
```

Arrays/Lists



JAVASCRIPT

```
let fruits = ['apple', 'banana', 'cherry'];  
fruits.push('date');  
console.log(fruits.length);  
console.log(fruits[0]);
```

Uses arrays, which are objects.



PYTHON

```
fruits = ['apple', 'banana', 'cherry']  
fruits.append('date')  
print(len(fruits))  
print(fruits[0])
```

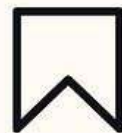
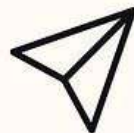
Uses lists, which are built-in data structures.



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Thank You



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