

Your code needs the ability to take different actions based on different conditions

```
if price >= 1.00:  
    tax = .07  
    print(tax)
```

Symbol	Operation
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to
==	is equal to
!=	is not equal to

You can add a default action using else

```
if price >= 1.00:  
    tax = .07  
    print(tax)  
else:  
    tax = 0  
    print(tax)
```

How you indent your code changes execution

```
if price >= 1.00:
```

```
    tax = .07
```

```
    print(tax)
```

```
else:
```

```
    tax = 0
```

```
    print(tax)
```

```
if price >= 1.00:
```

```
    tax = .07
```


```
else:
```

```
    tax = 0
```

```
    print(tax)
```

Be careful when comparing strings

```
country = 'CANADA'
if country == 'canada':
    print('Oh look a Canadian')
else:
    print('You are not from Canada')
```



String
comparisons are
case sensitive

output

You are not from Canada

Use string functions to make case insensitive comparisons

```
country = 'CANADA'
if country.lower() == 'canada':
    print('Oh look a Canadian')
else:
    print('You are not from Canada')
```

output

Oh look a Canadian

Conditions allow our code to react to different situations

Apply appropriate state or federal taxes based on location

Calculate salary based on job level

What to do if a file is not found

What to do if an expected value is missing