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```
found = False
print('before', found)
for value in [9, 41, 12, 3, 74, 15]:
    if value == 3:
        found = True
print(found, value)
print('after', found)
```

[14] ✓ 0.0s Python

```
before False
True 15
after True
```

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```
n = 0
while n > 0:
    print('lather')
print('rinse')
print('dry off!')
```

[8] ✓ 0.0s Python

```
rinse
dry off!
```

```
count = 0
sum = 0
print('before' , count , sum)
for value in [9, 41, 12, 3, 74, 15]:
    count = count+1
    sum = sum + value
    print(count, sum, value)
print('after', count, sum, sum/count)
```

[9] ✓ 0.0s Python

```
before 0 0
1 9 9
2 50 41
3 62 12
4 65 3
5 139 74
6 154 15
after 6 154 25.666666666666668
```

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```
print('before')
for thing in [9 , 41, 12, 3, 74, 15 ]:
    print (thing)
print ('after')
```

[5] ✓ 0.0s Python

```
before
9
41
12
3
74
15
after
```

```
zork = 0
print('before', zork)
for thing in [9 , 41, 12, 3, 74, 15 ]:
    zork = zork + 1
    print(zork, thing )
print('after', zork)
```

[6] ✓ 0.0s Python

```
before 0
1 9
2 41
3 12
4 3
5 74
```

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```
rawstr= input('enter a number:')
try:
  ival=int(rawstr)
except:
  ival = -1
if ival > 0:
  print ('nice work')
else:
  print('not a number')
```

[3] ✓ 6.7s Python

```
nice work
```

```
print(float(99)/100)
i = 42
type(i)
f = float(i)
print(f)
type(f)
print(1 + 2*float(3)/4-5)
```

[4] ✓ 0.0s Python

```
0.99
42.0
-2.5
```

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```
Hours= int(input('Enter your worked hour'))
rate=  int(input('Enter hourly Rate'))
def computepay(hours, rate):
    if hours > 40:
        regular_pay = 40 * rate
        overtime_hours = hours - 40
        overtime_pay = overtime_hours * (rate * 1.5)
        total_pay = regular_pay + overtime_pay
    else:
        total_pay = hours * rate

    return total_pay
print(f'Total Pay: ${pay:.2f}')
```

[18] Python

```
Total Pay: $96.25
```

```
def thing():
    print('hello')
    print('fun')
thing()
print('zip')
thing()
```

[2] ✓ 0.0s Python

```
hello
fun
zip
hello
fun
```

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```python
astr = 'Hello Bob'
try:
    istr = int(astr)
except:
    istr = -1

print('First', istr)
```

[11] Python

```
First -1
```

Rewrite your pay computation to give the employee 1.5 times the hourly rate for hours worked above 40 hours.

```python
Hours= int(input('Enter your worked hour'))
rate=  int(input('Enter hourly Rate'))
total_pay = 0
if Hours > 40 :
    regular_pay = 40 * rate
    overtime_hours= Hours - 40
    overtime_pay = overtime_hours * (rate * 1.5 )
    total_pay = regular_pay + overtime_pay
else:
    total_pay = Hours + rate
print(total_pay)
```

[15] Python

```
475.0
```

Comparison Operators:

```
x = 5
if x == 5 :
    print('Equals 5')
if x > 4 :
   print('Greater than 4')
if  x >= 5 :
    print('Greater than or Equals 5')
if x < 6 : print('Less than 6')
if x <= 5 :
    print('Less than or Equals 5')
if x != 6 :
    print('Not equal 6')
```

[9] Python

```
Equals 5
Greater than 4
Greater than or Equals 5
Less than 6
Less than or Equals 5
Not equal 6
```

try / except Structure:

```
astr = 'Hello Bob'
try:
```

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```python
#if statement
x = 5
if x < 10:
    print('Smaller')
if x > 20:
    print('Bigger')

print('Finis')
```

[8] Python

```
Smaller
Finis
```

```python
#if-else statement
x = 4

if x > 2 :
    print('Bigger')
else :
    print('Smaller')

print('All done')
```

[10] Python

```
Bigger
All done
```

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```
temp = 98.6
type(temp)
```

[10] ✓ 0.0s Python

```
float
```

```
x = 1 + 2 ** 3/4*5
print(x)
```

[12] ✓ 0.0s Python

```
11.0
```

Converting User Input:

```
inp = input('Europe floor?')
usf = int(inp) + 1
print('US floor', usf)
```

[3] Python

```
US floor 8
```

Conditional statement:

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Assignment Statements:

```
hours =  35
rate= 2.75
pay = float(hours) * float( rate )
print(pay)
```

[7] Python

```
96.25
```

```
a = 35.0
b= 12.50
c = a * b
print(c)
```

[13] ✓ 0.0s Python

```
437.5
```

User Input:

```
nam = input('Who are you? ')
print('Welcome', nam)
```

[2] Python

```
Welcome noor
```

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