```
13
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26
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```

[261]:
```python
for x in range(0, 30, 5):
  print(x)
```

```
0
5
10
15
20
25
```

Functions

[262]:
```python
# Function to greet
def greet():
    print("Hello, welcome to Python!")

# Calling the function
greet()
```

```
Hello, welcome to Python!
```

[263]:
```python
# Function to greet with a name
def greet(name):
    print("Hello,", name)

# Calling the function with different names
greet("Alice")
greet("Bob")
```

```
Hello, Alice
Hello, Bob
```

[265]:
```python
# default country
def greet(country="Norway"):
    print("I am from", country)

# Calling the function with different countries
greet("Sweden")
greet("India")
greet()  # Using the default country
greet("Brazil")
```

```
I am from Sweden
I am from India
I am from Norway
I am from Brazil
```

[276]:
```python
# Variable number of arguments
def print_names(*names):
    print("The input name is : ", names[1])

# Calling the function with a list of fruits
names = ['Gowtham', 'Sivam']
print_names(*names)  # Unpacking the list as arguments
```

```
The input name is :  Sivam
```

[278]:
```python
# Recursive function to calculate the factorial of a number
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)

# Calling the recursive function and printing the result
result = factorial(5)
print("Factorial of 5:", result)
```

```
Factorial of 5: 120
```

Lambda Functions

[279]:
```python
# Lambda function to calculate the square of a number
square = lambda x: x ** 2

# Using the lambda function to calculate square
result = square(5)
print("Square of 5:", result)
```

```
Square of 5: 25
```

[280]:
```python
# Using lambda function with map() to double each element in a list
numbers = [1, 2, 3, 4, 5]
doubled_numbers = list(map(lambda x: x * 2, numbers))
print("Doubled numbers:", doubled_numbers)
```

```
Doubled numbers: [2, 4, 6, 8, 10]
```

[281]:
```python
# Using lambda function with filter() to filter even numbers from a list
numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
even_numbers = list(filter(lambda x: x % 2 == 0, numbers))
print("Even numbers:", even_numbers)
```

```
Even numbers: [2, 4, 6, 8, 10]
```

[282]:
```python
# Using lambda function with sorted() to sort a list of tuples based on the second element
pairs = [(1, 'b'), (2, 'a'), (3, 'c')]
sorted_pairs = sorted(pairs, key=lambda x: x[1])
print("Sorted pairs based on the second element:", sorted_pairs)
```

```
Sorted pairs based on the second element: [(2, 'a'), (1, 'b'), (3, 'c')]
```

[283]:
```python
def operation(x):
    # Define a lambda function to double the input
    double = lambda a: a * 2
    # Double the input using the lambda function
    result = double(x)
    return result

# Call the function with an argument
print("Result:", operation(5))
```

```
Result: 10
```

[290]:
```python
!pyppeteer-install
```

```
[INFO] Starting Chromium download.
Traceback (most recent call last):
  File "c:\users\gowtham\appdata\local\programs\python\python39\lib\runpy.py", line 197, in _run_module_as_main
    return _run_code(code, main_globals, None,
  File "c:\users\gowtham\appdata\local\programs\python\python39\lib\runpy.py", line 87, in _run_code
    exec(code, run_globals)
  File "C:\Users\Gowtham\AppData\Local\Programs\Python\Python39\Scripts\pyppeteer-install.exe\__main__.py", line 7, in <module>
  File "c:\users\gowtham\appdata\local\programs\python\python39\lib\site-packages\pyppeteer\command.py", line 14, in install
    download_chromium()
  File "c:\users\gowtham\appdata\local\programs\python\python39\lib\site-packages\pyppeteer\chromium_downloader.py", line 138, in download_chromium
    extract_zip(download_zip(get_url()), DOWNLOADS_FOLDER / REVISION)
  File "c:\users\gowtham\appdata\local\programs\python\python39\lib\site-packages\pyppeteer\chromium_downloader.py", line 82, in download_zip
    raise OSError(f'Chromium downloadable not found at {url}: ' f'Received {r.data.decode()}.\n')
OSError: Chromium downloadable not found at https://storage.googleapis.com/chromium-browser-snapshots/Win_x64/1181205/chrome-win.zip: Received <?xml versio
n='1.0' encoding='UTF-8'?><Error><Code>NoSuchKey</Code><Message>The specified key does not exist.</Message><Details>No such object: chromium-browser-snapsh
ots/Win_x64/1181205/chrome-win.zip</Details></Error>.
```

[ ]: