

201 PYTHON PROGRAMMING EXERCISES FOR ALL



EDCORNER LEARNING

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Introduction

Python is a general-purpose interpreted, interactive, object- oriented, and a powerful programming language with dynamic semantics. It is an easy language to learn and become expert. Python is one among those rare languages that would claim to be both easy and powerful. Python's elegant syntax and dynamic typing alongside its interpreted nature makes it an ideal language for scripting and robust application development in many areas on giant platforms.

Python helps with the modules and packages, which inspires program modularity and code reuse. The Python interpreter and thus the extensive standard library are all available in source or binary form for free of charge for all critical platforms and can be freely distributed. Learning Python doesn't require any pre- requisites. However, one should have the elemental understanding of programming languages.

This Book consist of 12 modules to practice different Python exercises on different topics.

In each exercise we have given the exercise coding statement you need to complete and verify your answers. We also attached our own input output screen of each exercise and their solutions.

Learners can use their own python compiler in their system or can use any online compilers available.

We have covered all level of exercises in this book to give all the learners a good and efficient Learning method to do hands on python different scenarios.

Module 1 Tuples

1. Given the code below, use the correct argument(s) for the range() function on line 1 in order to return a range of consecutive integers from 0 to 9 inclusively. Use a single argument inside the parentheses of range()!

2.

my_range =
print(list(my_range)) #[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

```
#Edcorner Learning Python Exercises Vol

my_range = range(10)

print(list(my_range)) #[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

2. Given the code below, use the correct argument(s) for the **range()** function on line 1 in order to return a range of consecutive integers from 0 to 9 inclusively. Use two arguments inside the parentheses of **range()**!

print(list(my_range)) #[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

```
#Edcorner Learning Python Exercises Vol

my_range = range(0, 10)

print(list(my_range)) #[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

3. Given the code below, use the correct argument(s) for the range() function on line 1 in order to return a range of consecutive integers from 117 to 129 exclusively.

my_range =

print(list(my_range)) #[117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128]

D.

4. Given the code below, use the correct argument(s) for the range() function on
line 1 in order to return [10,13,16,19] when converted to a list.

my_range =

print(list(my_range)) #[10, 13, 16, 19]

```
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[10, 13, 16, 19]

my_range = range(10, 20, 3)

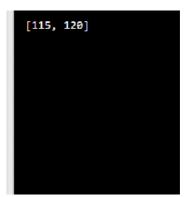
print(list(my_range)) #[10, 13, 16, 19]
```

5. Given the code below, add the correct step as the third argument of the rangef) function on line 1 in order to return [115,120] when converted to a list.

$$my_range = range(115, 125,)$$

```
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```

```
my_range = range(115, 125, 5)
print(list(my_range)) #[115, 120]
```



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6. Given the code below, add the correct step as the third argument of the **rangef)** function on line 1 in order to return [-75, -60, -45, -30] when converted to a list.

$$my_range = range(-75, -25,)$$

```
#Edcorner Learning Python Exercises
```

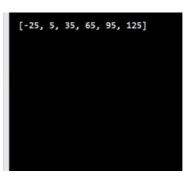
```
my_range = range(-75, -25, 15)
print(list(my_range)) #[-75, -60, -45,
-30]
```



7. Given the code below, add the correct step as the third argument of the range() function on line 1 in order to return [-25, 5,35, 65, 95,125] when converted to a list.

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my_range = range(-25, 139, 30)
print(list(my_range)) #[-25, 5, 35, 65, 95, 125]



8. Given the code below, write the correct range on line 1 in order to return [-10] when converted to a list.

```
#Edcorner Learning Python Exercises
my_range = range(-10,-9)
print(list(my_range)) #[-10]
```



Module 2 Dictionaries

9. Given the code below, use the correct code on line 3 in order to return the value associated with key 4. Do not use a method as a solution for this exercise!

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar",
5: "XRP"}
value =
print(value)
```

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
value = crypto[4]
print(value)
```

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10. Given the code below, use the correct code on line 3 in order to return the value associated with key 4. This time, use a method as a solution for this exercise!

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}
```

value =

print(value)

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
value = crypto.get(4)
print(value)
```

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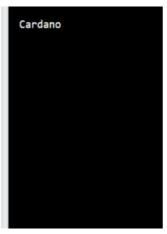
11. Given the code below, use the correct code on line 3 in order to update the value — associated with key 4 to "Cardano".

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}
```

print(crypto[4])

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
crypto[4] = "Cardano"
print(crypto[4])
```

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12. Given the code below, use the correct code on line 3 in order to add a new key-value pair to the dictionary: 6: "Monero"

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}

print(crypto[6])

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
crypto[6] = "Monero"
print(crypto[6])
```

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13. Given the code below, use the correct code on line 3 to return the number of key-value pairs in the dictionary.

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar",
5: "XRP"}
number =
```

print(number)

```
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crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}

number = len(crypto)
print(number)
```



0

14. Given the code below, use the correct code on line 3 to delete the key-value pair associated with key 3. Do not use a method as a solution for this exercise!

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5:
"XRP"}

print(crypto)

```
#Edcorner Learning Python Exercises

{1: 'Bitcoin', 2: 'Ethereum', 4: 'Stellar', 5: 'XRP'}

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}

del crypto[3]

print(crypto)
```

15. Given the code below, use the correct code on line 3 in order to delete the key-value pair associated with key 3. This time, use a method as a solution for this exercise!

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}

print(crypto)

```
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{1: 'Bitcoin', 2: 'Ethereum', 4: 'Stellar', 5: 'XRP'}

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}

crypto.pop(3)

print(crypto)
```

16. Given the code below, use the correct code on line 3 in order to verify that 7 is not a key in the dictionary.

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5:
"XRP"}

check =

print(check)

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
check = 7 not in crypto
print(check)
```



B

`17. Given the code below, use the correct method on line 3 in order to delete all the elements in the dictionary.

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar",
5: "XRP"}
crypto.
print(crypto)
```

```
#Edcorner learning Python Exercises

crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}

crypto.clear()
print(crypto)
```

18. Given the code below, use the correct code on line 3 in order to get a list of tuples, where each tuple represents a key-value pair in the dictionary.

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5:
"XRP"}
result =
print(list(result))
```

```
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[(1, 'Bitcoin'), (2, 'Ethereum'), (3, 'Litecoin'), (4, 'Stellar'), (5, 'XRP')]

crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}

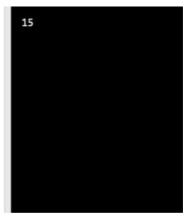
result = crypto.items()

print(list(result))
```

19. Given the code below, use the correct function on line 3 in order to get the sum of all the keys in the dictionary.

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar",
5: "XRP"}
add =
print(add)
```

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
add = sum(crypto)
print(add)
```



20. Given the code below, use the correct method on line 3 in order to get a list of all the values in the dictionary.
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5: "XRP"}
val =
print(list(val))

```
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['Bitcoin', 'Ethereum', 'Litecoin', 'Stellar', 'XRP']

crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}

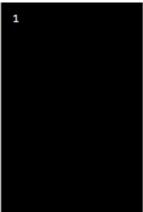
val = crypto.values()

print(list(val))
```

21. Given the code below, use the correct function on line 3 in order to get the smallest key in the dictionary.

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar",
5: "XRP"}
key =
    print(key)
```

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
key = min(crypto)
print(key)
```



22. 0	Given the	code belov	v, use	the correc	t method	on l	ine 3	in (order	to
get a	a list of al	l the keys i	n the	dictionary.						

crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4: "Stellar", 5:
"XRP"}

keys =

print(list(keys))

```
crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}
keys = crypto.keys()
print(list(keys))
```



23. Given the code below, use the correct method on line 3 in order to return and remove an arbitrary key-value pair from the dictionary.

```
crypto = {1: "Bitcoin", 2: "Ethereum", 3: "Litecoin", 4:
"Stellar", 5: "XRP"}
print(len(crypto))
```

```
#Edcorner Learning Python Exercises

crypto = {1: "Bitcoin", 2: "Ethereum",
3: "Litecoin", 4: "Stellar", 5: "XRP"}

crypto.popitem()

print(len(crypto))
```

Module 3 Data type

24. Given the code below, use the correct function on line 3 in order	r
to convert value to a string.	

value = 10
conv =
print(type(conv))

```
#Edcorner Learning Python Exercises
value = 10
conv = str(value)
print(type(conv))
```



25. Given the code below, use the correct function on line 3 in order to convert value to an integer.

```
value = "10"
conv =
print(type(conv))
```

```
#Edcorner Learning Python Exercises

value = "10"

conv = int(value)
print(type(conv))
```



Do

26. Given the code below, use the correct function on line 3 in order to convert value to a floating-point number.

```
value = 10
conv =
print(type(conv))
```

```
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value = 10

conv = float(value)
print(type(conv))
```



27. Given the code below, use the correct function on line 3 in order to convert value to a list.

```
value = "Hello!"
conv =
print(type(conv))
```

```
#Edcorner Learning Python Exercises
value = "Hello!"
conv = list(value)
print(type(conv))
```



28. Given the code below, use the correct function on line 3 in order to convert value to a tuple.

```
value = [1, 2, 3, 10, 20, 30]
conv =
print(type(conv))
```

```
value = [1, 2, 3, 10, 20, 30]
conv = tuple(value)
print(type(conv))
```



29. Given the code below, use the correct function on line 3 in order to convert value to a frozen set.

```
value = (10, 20, 40, 10, 25, 30, 45)
conv =
print(type(conv))
```

```
value = (10, 20, 40, 10, 25, 30, 45)
conv = frozenset(value)
print(type(conv))|
```

B

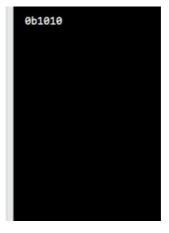


30. Given the code below, use the correct function on line 3 in order to convert value to a binary representation.
value = 10
conv =
print(conv)

```
#Edcorner Learning Python Exercises

value = 10

conv = bin(value)
print(conv)
```

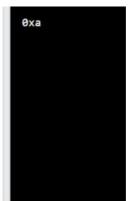


31. Given the code below, use the correct function on line 3 in order to convert value to a hexadecimal representation.

```
#Edcorner Learning Python Exercises

value = 10

conv = hex(10)
print(conv)
```



32. Given the code below, use the correct function on line 3 in order to convert value from binary to decimal notation. value = '0b1010'
conv =
print(conv)

```
#Edcorner Learning Python Exercises
value = '0b1010'
conv = int(value, 2)
print(conv)
```



33. Given the code below, use the correct function on line 3 in order to convert value from hexadecimal to decimal notation.

value = '0xa'
conv =
print(conv)

```
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value = '0xa'

conv = int(value, 16)
print(conv)
```

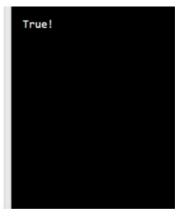


Module 4 Conditionals

34. Considering the code below,	, write code t	hat prints	out True!	if x has	50
characters or more.					

x = "The days of Python 2 are almost over. Python 3 is the king now."

x = "The days of Python 2 are almost over. Python 3 is the king now." if len(x) >= 50: print("True!")

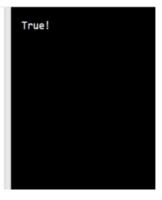


35. Considering the code below, write code that prints out True! if x is a string and the first character in the string is T.

x = "The days of Python 2 are almost over. Python 3 is the king now."

x = "The days of Python 2 are almost over. Python 3 is the king now."

if type(x) is str and
x.startswith("T"):
 print("True!")



- 36. Considering the code below, write code that prints out True! if at least one of the following conditions occurs:
- •the string contains the character z
- •the string contains the character y at least twice
- x = "The days of Python 2 are almost over. Python 3 is the king now."

x = "The days of Python 2 are almost over. Python 3 is the king now."

if "z" in x or x.count("y") >= 2:
 print("True!")



37. Considering the code below, write code that prints out True! if the index of the first occurrence of letter f is less than 10 and prints out False! if the same condition is not satisfied.

x = "The days of Python 2 are almost over. Python 3 is the king now."

```
#Edcorner Learning Python Exercises
```

```
x = "The days of Python 2 are almost
over. Python 3 is the king now."
if x.index("f") < 10:
    print("True!")
else:
    print("False!")
```



38. Considering the code below, write code that prints out True! if the last 3 characters of the string are all digits and prints out False! otherwise.

Hint! Use the appropriate method to check if the requested string slice contains digits only.

x = "The days of Python 2 are almost over. Python 3 is the king now."

```
x = "The days of Python 2 are almost
over. Python 3 is the king now."

if x[-3:].isdigit():
    print("True!")
else:
    print("False!")
```



39. Considering the code below, write code that prints out True! if x has at least 8 elements and the element positioned at index 6 is a floating-point number and prints out False! otherwise.

x = [115, 115.9, 116.01, ["length", "width", "height"], 109, 115, 119.5, ["length", "width", "height"]]

```
x = [115, 115.9, 116.01, ["length",
  "width", "height"], 109, 115, 119.5,
  ["length", "width", "height"]]

if len(x) >= 8 and type(x[6]) is float:
    print("True!")
else:
    print("False!")
```



40. Considering the code below, write code that prints out True! if the second string of the first list in X ends with the letter h and the first string of the second list in x also ends with the letter h, and prints out False! otherwise.

x = [115, 115.9, 116.01, ["length", "width", "height"], 109, 115,
119.5, ["length", "width", "height"]]

```
x = [115, 115.9, 116.01, ["length",
  "width", "height"], 109, 115, 119.5,
["length", "width", "height"]]

if x[3][1].endswith("h") and x[7]
[0].endswith("h"):
    print("True!")
else:
    print("False!")
```



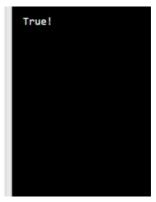
- 41. Considering the code below, write code that prints out True! if one of the following two conditions are satisfied and prints out False! otherwise.
- •the third string of the first list in x ends with the letter h
- •the second string of the second list in x also ends with the letter h

x = [115, 115.9, 116.01, ["length", "width", "height"], 109, 115, 119.5, ["length", "width", "height"]]

```
#Edcorner Learning Python Exercises

x = [115, 115.9, 116.01, ["length",
    "width", "height"], 109, 115, 119.5,
    ["length", "width", "height"]]

if x[3][2].endswith("h") or x[7]
[1].endswith("h"):
    print("True!")
else:
    print("False!")
```



42. Considering the code below, write code that prints out **True**! if the largest value among the first 3 elements of the list is less than or equal to the smallest value among the next 3 elements of the list. Otherwise, print out **False**!

Hint! Use the appropriate slices to make the comparison.

```
x = [115, 115.9, 116.01, 109, 115, 119.5, ["length", "width", "height"]]
```

```
#Edcorner Learning Python Exercises

x = [115, 115.9, 116.01, 109, 115,
119.5, ["length", "width", "height"]]

if max(x[:3]) <= min(x[3:6]):
    print("True!")
else:
    print("False!")</pre>
```



43. Considering the code below, write code that prints out **True!** if **115** appears at least once inside the list or if it is the first element in the list. Otherwise, print out **False!**

Hint! Use the appropriate method to check if 115 is the first element in the list.

x = [115, 115.9, 116.01, 109, 115, 119.5, ["length", "width", "height"]]

```
#Edcorner Learning Python Exercises

X = [115, 115.9, 116.01, 109, 115, 119.5, ["length", "width", "height"]]

if x.count(115) >= 1 or x.index(115) == 0:
    print("True!")

else:
    print("False!")
```

44. Considering the code below, write code that prints out **True!** if the value associated with key number **5** is **Perl** or the number of key-value pairs in the dictionary divided by 5 returns a remainder less than 2. Otherwise, print out **False!**

 $x = \{1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C++" \}$

```
x = {1: "Python", 2: "Java", 3:
   "Javascript", 4: "Ruby", 5: "Perl", 6:
   "C#", 7: "C++"}

if x[5] == "Perl" or len(x) % 5 < 2:
    print("True!")
else:
   print("False!")</pre>
```



45. Considering the code below, write code that prints out True! if 3 is a key in the dictionary and the smallest value (alphabetically) in the dictionary is C#. Otherwise, print out False!

 $x = \{1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C++" \}$

```
#Edcorner Learning Python Exercises

x     {1: "Python", 2: "Java", 3:
     "Javascript", 4: "Ruby", 5: "Perl", 6:
     "C#", 7: "C++"}

if 3 in x and sorted(x.values())[0] ==
     "C#":
          print("True!")
else:
     print("False!")|
```



46. Considering the code below, write code that prints out True! if the last character of the largest (alphabetically) value in the dictionary is n. Otherwise, print out False!

```
x = {1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C++"}
```

```
x = {1: "Python", 2: "Java", 3:
"Javascript", 4: "Ruby", 5: "Perl", 6:
"C#", 7: "C++"}
if sorted(x.values())[-1][-1] == "n":
    print("True!")
else:
    print("False!")
```



47. Considering the code below, write code that prints out **True!** if the largest key in the dictionary divided by the second largest key in the dictionary returns a remainder equal to the smallest key in the dictionary. Otherwise, print out **False!**

 $x = \{1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C++" \}$

```
x = {1: "Python", 2: "Java", 3:
    "Javascript", 4: "Ruby", 5: "Perl", 6:
    "C#", 7: "C++"}
if sorted(x.keys())[-1] %
sorted(x.keys())[-2] ==
sorted(x.keys())[0]:
    print("True!")
else:
    print("False!")
```



48. Considering the code below, write code that prints out **True!** if the sum of all the keys in the dictionary is less than the number of characters of the string obtained by concatenating the values associated with the first 5 keys in the dictionary. Otherwise, print out **False!**

 $x = \{1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C + + "\}$

```
x = {1: "Python", 2: "Java", 3:
"Javascript", 4: "Ruby", 5: "Perl", 6:
"C#", 7: "C++"}

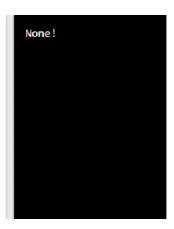
if sum(x) < len(x[1] + x[2] + x[3] +
x[4] + x[5]):
    print("True!")
else:
    print("False!")</pre>
```



49. Considering the code below, write code that prints out True! if the 3rd element of the first range is less than 2, prints out False! if the 5th element of the first range is 5, and prints out None! otherwise.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

```
#Edcorner Learning Python Exercises
```



50. Considering the code below, write code that prints out **True!** if the 3rd element of the 3rd range is less than 6, prints out **False!** if the 1 st element of the second range is 5, and prints out **None!** otherwise.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

```
x = [list(range(5)), list(range(5,9)),
list(range(1,10,3))]

if x[2][2] < 6:
    print("True!")
elif x[1][0] == 5:
    print("False!")
else:
    print("None!")</pre>
```



51. Considering the code below, write code that prints out **True!** if the last element of the first range is greater than 3, prints out **False!** if the last element of the second range is less than 9, and prints out **None!** otherwise.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

```
x = [list(range(5)), list(range(5,9)),
list(range(1,10,3))]
if x[0][-1] > 3:
    print("True!")
elif x[1][-1] < 9:
    print("False!")
else:
    print("None!")</pre>
```

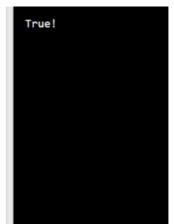


52. Considering the code below, write code that prints out **True!** if the length of the first range is greater than or equal to 5, prints out **False!** if the length of the second range is 4, and prints out **None!** otherwise.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

```
x = [list(range(5)), list(range(5,9)),
list(range(1,10,3))]

if len(x[0]) >= 5:
    print("True!")
elif len(x[1]) == 4:
    print("False!")
else:
    print("None!")
```



53. Considering the code below, write code that prints out True! if the sum of all the elements of the first range is greater than the sum of all the elements of the third range, prints out False! if the largest element of the second range is greater than the largest element of the third range, and prints out None! otherwise.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

```
x = [list(range(5)), list(range(5,9)),
list(range(1,10,3))]

if sum(x[0]) > sum(x[2]):
    print("True!")
elif max(x[1]) > max(x[2]):
    print("False!")
else:
    print("None!")|
```



54. Considering the code below, write code that prints out True! if the largest element of the first range minus the second element of the 3rd range is equal to the first element of the first range, prints out False! if the length of the first range minus the length of the 2nd range is equal to the first element of the 3rd range, prints out Maybe! if the sum of all the elements of the 3rd range divided by 2 returns a remainder of 0, and prints out None! otherwise.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

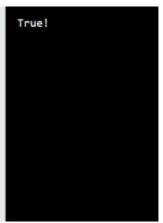
```
x = [list(range(5)), list(range(5,9)),
list(range(1,10,3))]

if max(x[0]) - x[2][1] == x[0][0]:
    print("True!")

elif len(x[0]) - len(x[1]) == x[2][0]:
    print("False!")

elif sum(x[2]) % 2 == 0:
    print("Maybe!")

else:
    print("None!")
```

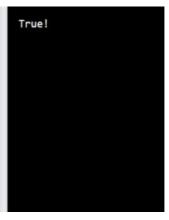


55. Considering the code below, write code that prints out True! if the sum of the last 3 elements of the first range plus the sum of the last 3 elements of the 3rd range is equal to the sum of the last 3 elements of the 2nd range, and prints out False! if the length of the first range times 2 is less than the sum of all the elements of the 3rd range.

x = [list(range(5)), list(range(5,9)), list(range(1,10,3))]

```
x = [list(range(5)), list(range(5,9)),
list(range(1,10,3))]

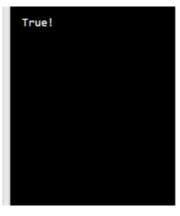
if sum(x[0][-3:]) + sum(x[2][-3:]) ==
sum(x[1][-3:]):
    print("True!")
elif len(x[0]) * 2 < sum(x[2]):
    print("False!")</pre>
```



56. Considering the code below, write code that prints out True! if the 2nd character of the value at key 1 is also present in the value at key 4, and prints out False! otherwise.

```
x = \{1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C++" \}
```

```
x = {1: "Python", 2: "Java", 3:
"Javascript", 4: "Ruby", 5: "Perl", 6:
"C#", 7: "C++"}
if x[1][1] in x[4]:
    print("True!")
else:
    print("False!")
```



57. Considering the code below, write code that prints out True! if the second to last character of the value at key 3 is the first character of the value at key 5, and prints out False! otherwise.

 $x = \{1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C + + "\}$

```
x = {1: "Python", 2: "Java", 3:
"Javascript", 4: "Ruby", 5: "Perl", 6:
"C#", 7: "C++"}
if x[3][-2] == x[5][0]:
    print("True!")
else:
    print("False!")
```



58. Considering the code below, write code that prints out True! if the number of characters of the smallest value in the dictionary is equal to the number of occurrences of letter a in the value at key 3, and prints out False! otherwise.

```
x = {1: "Python", 2: "Java", 3: "Javascript", 4: "Ruby", 5: "Perl", 6: "C#", 7: "C++"}
```

```
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x = {1: "Python", 2: "Java", 3:
    "Javascript", 4: "Ruby", 5: "Perl", 6:
    "C#", 7: "C++"}

if len(min(x.values())) ==
    x[3].count("a"):
    print("True!")
else:
    print("False!")
```

Module 5 Loops

59. Write a for loop that iterates over the \boldsymbol{x} list and prints out all the elements of the list.

$$x = [10, 12, 13, 14, 17, 19, 21, 22, 25]$$

x = [10, 12, 13, 14, 17, 19, 21, 22,
25]
for i in x:
 print(i)

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D

60. Write a for loop that iterates over the x list and prints out the remainders of each element of the list divided by 3.

x = [10, 12, 13, 14, 17, 19, 21, 22, 25]

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x = [10, 12, 13, 14, 17, 19, 21, 22,
25]
for i in x:
 print(i % 3)

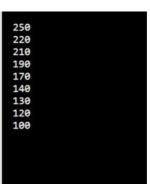


61. Write a for loop that iterates over the x list and prints out all the elements of the list in reversed order and multiplied by 10.

$$x = [10, 12, 13, 14, 17, 19, 21, 22, 25]$$

$$x = [10, 12, 13, 14, 17, 19, 21, 22, 25]$$

for i in sorted(x, reverse = True):
 print(i * 10)



62. Write a for loop that iterates over the x list and prints out all the elements of the list divided by 2 and the string Great job! after the list is exhausted.

x = [10, 12, 13, 14, 17, 19, 21, 22, 25]

```
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x = [10, 12, 13, 14, 17, 19, 21, 22,
25]
for i in x:
    print(i / 2)
else:
    print("Great job!")
```

```
5.0
6.0
6.5
7.0
8.5
9.5
10.5
11.0
12.5
Great job!
```

63. Write a for loop that iterates over the x list and prints out the index of each element.

$$x = [10, 12, 13, 14, 17, 19, 21, 22, 25]$$

```
x = [10, 12, 13, 14, 17, 19, 21, 22,
25]
for i in x:
    print(x.index(i))
```



64. Write a while loop that prints out the value of x squared while x is less than or equal to 5. Be careful not to end up with an infinite loop!

x = 0

```
x = 0
while x <= 5:
    print(x ** 2)
    x = x + 1</pre>
```



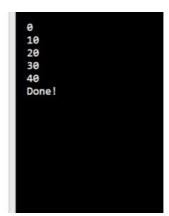
65. Write a while loop that prints out the value of x times 10 while x is less than or equal to 4 and then prints out Done! when x becomes larger than 4. Be careful not to end up with an infinite loop!

x = 0

```
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x = 0

while x <= 4:
    print(x * 10)
    x = x + 1
else:
    print("Done!")</pre>
```



B

66. Write a while loop that prints out the value of x plus 10 while x is less than or equal to 15 and the remainder of x divided by 5 is 0. Be careful not to end up with an infinite loop!

x = 10

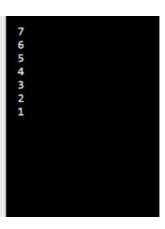
```
x = 10
while x <= 15 and x % 5 -= 0:
    print(x + 10)
    x = x + 1</pre>
```



67. Write a while loop that prints out the absolute value of \mathbf{x} while \mathbf{x} is negative. Be careful not to end up with an infinite loop!



```
x = -7
while x < 0:
    print(abs(x))
    x = x + 1</pre>
```

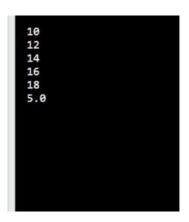


68. Write a while loop that prints out the value of x times y while x is greater than or equal to 5 and less than 10, and prints out the result of x divided by y when x becomes 10. Be careful not to end up with an infinite loop!

$$x = 5$$

$$y = 2$$

```
x = 5
y = 2
while x >= 5 and x < 10:
    print(x * y)
    x = x + 1
else:
    print(x / y)</pre>
```

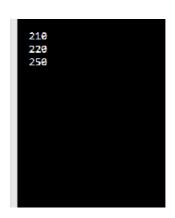


69. Write code that will iterate over the x list and multiply by 10 only the elements that are greater than 20 and print them out to the screen.

$$x = [10, 12, 13, 14, 17, 19, 21, 22, 25]$$

```
x = [10, 12, 13, 14, 17, 19, 21, 22,
25]

tor i in x:
    if i > 20:
        print(i * 10)
```



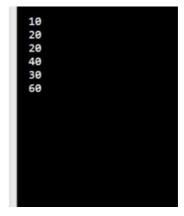
70. Write code that will iterate over the x and y lists and multiply each element of x with each element of y, also printing the results to the screen.

$$x = [2, 4, 6]$$

$$y = [5, 10]$$

```
x = [2, 4, 6]
y = [5, 10]

for i in x:
    for j in y:
        print(i * j)|
```



71. Write code that will iterate over the x and y lists and multiply each element of x with each element of y that is less than 12, also printing the results to the screen.

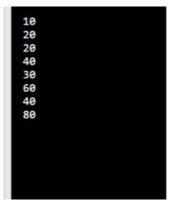
$$x = [2, 4, 6, 8]$$

$$y = [5, 10, 15, 20]$$

```
#Edcorner Learning Python Exercises
```

```
x = [2, 4, 6, 8]
y = [5, 10, 15, 20]

for i in x:
    for j in y:
        if j < 12:
            print(i * j)|</pre>
```



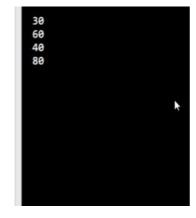
72. Write code that will iterate over the x and y lists and multiply each element of x that is greater than 5 with each element of y that is less than 12, also printing the results to the screen.

$$x = [2, 4, 6, 8]$$

 $y = [5, 10, 15, 20]$

```
x = [2, 4, 6, 8]
y = [5, 10, 15, 20]

for i in x:
    for j in y:
        if i> 5 and j < 12:
        print(i * j)</pre>
```



73. Write code that will iterate over the x and y lists and multiply each element of x with each element of y that is less than or equal to 10, also printing the results to the screen. For ys elements that are greater than 10, multiply each element of x with y squared.

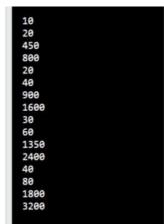
Hint: use nesting! x = [2, 4, 6, 8]

y = [5, 10, 15, 20]

```
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```

```
x = [2, 4, 6, 8]
y = [5, 10, 15, 20]

for i in x:
    for j in y:
        if j <= 10:
            print(i * j)
    else:
        print(i * j ** 2)</pre>
```



B

74. Write code that will print out each character in x doubled if that character is also inside y. Hint: use nesting!

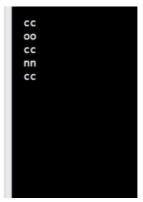
x = "cryptocurrency"

y = "blockchain"

```
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x = "cryptocurrency"
y = "blockchain"

for i in x:
    if i in y:
        print(i * 2)
```



75. Write code that will iterate over the range generated by range(9) and for each element that is between 3 and 7 inclusively print out the result of multiplying that element by the second element in the same range.

Hint: use nesting!

 $my_range = range(9)$

```
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```

```
my_range = range(9)
for i in my_range:
    if 3 <= i <= 7:
        print(i * my_range[1])</pre>
```



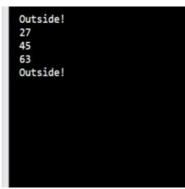


76. Write code that will iterate over the range starting at 1, up to but not including 11, with a step of 2, and for each element that is between 3 and 8 inclusively print out the result of multiplying that element by the last element in the same range. For any other element of the range (outside [3-8]) print Outside!

```
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for i in range(1,11,2):
    if 3 <= i <= 8:
        print(i * range(1,11,2)[-1])
    else:
        print("Outside!")</pre>
```

D



77. Write code that will iterate over the range starting at 5, up to but not including 25, with a step of 5, and for each element that is between 10 and 21 inclusively print out the result of multiplying that element by the second to last element of the same range. For any other element of the range (outside [10-21]) print Outside! Finally, after the entire range is exhausted print out The end!

```
for i in range(5,25,5):
    if 10 <= i <= 21:
        print(i * range(5,25,5)[-2])
    else:
        print("Outside!")
else:
    print("The end!")</pre>
```

```
Outside!
150
225
300
The end!
```

78. Write a while loop that prints out the value of x times 11 while x is less than or equal to 11. When x becomes equal to 10, print out x is 10! Be careful not to end up with an infinite loop!

x = 5

```
x = 5
while x <= 11:
    if x == 10:
        print("x is 10!")
        x = x + 1
else:
    print(x * 11)
    x = x + 1</pre>
```

```
55
66
77
88
99
x is 10!
121
```

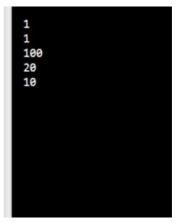
79. Insert a break statement where necessary in order to obtain the following result:

```
x = [1, 2]
y = [10, 100]
for i in x:
for j in y:
    if i % 2 == 0:
print(i * j)
    print(i)
    print(j)
```

```
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x = [1, 2]
y = [10, 100]

for i in x:
    for j in y:
        if i % 2 == 0:
             print(i * j)
            break
    print(j)
```

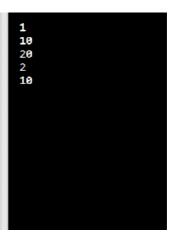


80. Insert a break statement where necessary in order to obtain the following result:

```
x = [1, 2]
y = [10, 100]
for i in x:
for j in y:
if i % 2 == 0:
print(i * j)
print(i)
print(j)
```

```
x = [1, 2]
y = [10, 100]

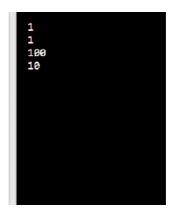
tor i in x:
    for j in y:
        it i % 2 == 0:
            print(i * j)
        print(j)
```



81. Insert a break statement where necessary in order to obtain the following result:

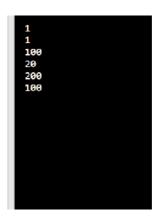
```
x = [1, 2]
y = [10, 100]

for i in x:
for j in y:
   if i % 2 == 0:
    print(i * j)
    print(i)
   print(j)
```



82. Insert a continue statement where necessary in order to obtain the following result:

```
x = [1, 2]
y = [10, 100]
for i in x:
for j in y:
if i % 2 == 0:
  print(i * j)
print(i)
  print(j)
```



 $83. \ \mbox{Insert}$ a continue statement where necessary in order to obtain the following result:

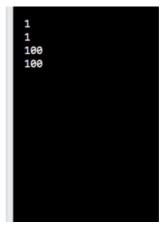
```
x = [1, 2]
y = [10, 100]

for i in x:
  for j in y:
    if i % 2 == 0:
        print(i * j)
    print(j)
```

```
#Edcorner Learning Python Exercises
```

```
x = [1, 2]
y = [10, 100]

for i in x:
    for j in y:
        if i % 2 == 0:
            continue
            print(i * j)
    print(j)
```



Module 6 Exceptions

 $84.\ \mbox{Fix}$ the code below so that it doesn't generate a SyntaxError. Hint! The result should be $20\ 200$

$$x = [1, 2]$$
 $y = [10, 100]$
for i in x:
for j in y:
if i % 2 = = 0
print(i * j)

```
x = [1, 2]
y = [10, 100]

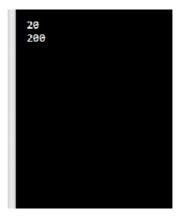
tor i in x:
    for j in y:
        if i % 2 == 0:
            print(i * j)
```



85. Fix the code below so that it doesn't generate a TypeError. Hint! The result should be 20 200

$$x = [1, 2]$$

 $y = [10, 100]$
for i in x:
for j in y:
if y % 2 = = 0:
print(i * j)



 $\stackrel{>}{\sim}$

86. Fix the code below so that it doesn't generate an IndexError. Hint! The result should be 200 200

$$x = [1, 2]$$

 $y = [10, 100]$
for i in x:
for j in y:
if i % 2 = 0:
print(x[1] * y[2])

```
x [1, 2]
y = [10, 100]

for i in x:
    for j in y:
        if i % 2 == 0:
        print(x[1] * y[1])
```



87. Add the necessary clause(s) to the code below so that in case the ZeroDivisionError exception is raised then the program prints out Zero! to the screen.

try: print(25 % 0)

```
try:
    print(25 % 0)
except ZeroDivisionError:
    print("Zero!")
```

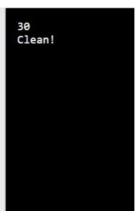


88. Add the necessary clause(s) to the code below so that in case the code under try raises no exceptions then the program prints out the result of the math operation and the string Clean! to the screen.

```
try:
print(25 % 5 ** 5 + 5)
except:
    print("Bug!")
```

```
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try:
    print(25 % 5 ** 5 + 5)
except:
    print("Bug!")
else:
    print("Clean!")
```



89. Add the necessary clause(s) to the code below so that no matter if the code under try raises any exceptions or not, then the program prints out the string Result! to the screen.

```
try:
print(25 % 0 ** 5 + 5)
except:
print("Bug!")
```

```
try:
    print(25 % 0 ** 5 + 5)
except:
    print("Bug!")
finally:
    print("Result!")
```



90. Add the necessary clause(s) to the code below so that in case the code under try raises the ZeroDivisionError exception then the program prints out the string Zero! to the screen; additionally, if the code under try raises the IndexError exception then the program prints out the string Index! to the screen.

$$x = [1, 9, 17, 32]$$

try:
print(x[3] % 3 ** 5 + x[4])

```
#Edcorner Learning Python Exercises
```

```
x [1, 9, 17, 32]
try:
    print(x|3| % 3 ** 5 + x|4|)
except ZeroDivisionError:
    print("ZeroI")
except IndexError:
    print("Index!")
```

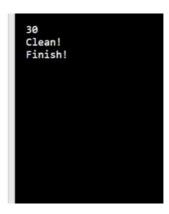


91. Add the necessary clause(s) to the code below so that in case the code under try raises no exceptions then the program prints out the result of the math operation and the string Clean! to the screen. If the code under try raises the ZeroDivisionError exception then the program prints Zero! to the screen. Ultimately, regardless of the result generated by the code under try, the program should print out Finish! to the screen.

```
try:
print(25 % 5 ** 5 + 5)
```

```
#Edcorner Learning Python Exercises
```

```
try:
    print(25 % 5 ** 5 + 5)
except ZeroDivisionError:
    print("Zero!")
else:
    print("Clean!")
finally:
    print("Finish!")
```



Module 7 Functions

93. Implement a function called my_func() that simply prints out Hello Python! to the screen and call the function.

```
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```

```
def my func():
    print("Hello Python!")
my_func()
```



94. Implement a function called my_func() that creates a variable add which stores the result of adding 10 and 20, and prints out the value of add. Don't forget to also call the function!

```
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def my_func():
    add = 10 + 20
    print(add)

my_func()
```

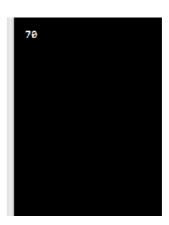


95. Implement a function called my_func() that takes a single parameter x and multiplies it with 10, also returning the result when the function is called

```
result = my_func(7)
print(result)
```

```
def my_func(x):
    return x * 10

result = my_func(7)
print(result)
```



96. Implement a function called my_func() that takes two parameters x and y and divides x by y, also returning the result when the function is called.

result = my_func(38,19) print(result)

```
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def my_func(x, y):
    return x / y

result = my_func(38,19)
print(result)
```



97. Implement a function called my_func() that takes 3 parameters x, y and z and raises x to the power of y then adds z, also returning the result when the function is called.

result = my_func(3,3,3) print(result)

```
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```

```
det my_func(x,y,z):
    return x ** y + z

result = my_func(3,3,3)
print(result)
```

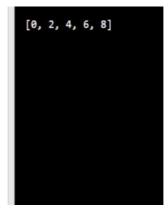


98. Implement a function called my_func() that takes a single parameter x and multiplies it with each element of range(5), also adding each multiplication result to a new (initially empty) list called my_new_list. Finally, the list should be printed out to the screen after the function is called.

```
result = my_func(2)
print(result)
```

```
def my_func(x):
    my_new_list = []
    for i in range(5):
        my_new_list.append(i * x)
    return my_new_list

result = my_func(2)
print(result)
```



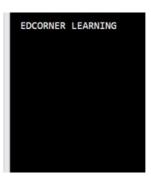
99. Implement a function called my_func() that takes a single parameter x (a string) and turns each character of the string to uppercase, also returning the result when the function is called

result = my_func("Edcorner Learning")
print(result)

```
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def my_func(x):
    return x.upper()

result = my_func("Edcorner Learning")
print(result)
```



100. Implement a function called my_func() that takes a single parameter x (a list) and eliminates all duplicates from the list, also returning the result when the function is called

result = my_func([11, 12, 13, 11, 15, 18, 18, 22, 20, 16, 12]) print(result)

```
#Edcorner Learning Python Exercises
```

```
def my_func(x):
    return list(set(x))

result = my_func([11, 12, 13, 11, 15,
18, 18, 22, 20, 16, 12])
print(result)
```

B



101. Implement a function called my_func() that takes a single parameter x (a tuple) and for each element of the tuple that is greater than 4 it raises that element to the power of 2, also adding it to a new (initially empty) list called my.newlist. Finally, the code returns the result when the function is called.

result = my_func((2, 3, 5, 6, 4, 8, 9)) print(result)

```
#Edcorner Learning Python Exercises

def my_func(x):
    my_new_list = []
    for i in x:
        if i > 4:
            my_new_list.append(i ** 2)
    return my_new_list

result = my_func((2, 3, 5, 6, 4, 8, 9))
print(result)

[25, 36, 64, 81]
```

102. Implement a function called my_func() that takes a single parameter x (a dictionary) and multiplies the number of elements in the dictionary with the largest key in the dictionary, also returning the result when the function is called.

```
result = my_func({1: 3, 2: 3, 4: 5, 5: 9, 6: 8, 3: 7, 7: 0})
print(result)
```

```
#Edcorner Learning Python Exercises
```

```
def my_func(x):
    return len(x) * sorted(x.keys())
[-1]
result = my_func({1: 3, 2: 3, 4: 5, 5: 9, 6: 8, 3: 7, 7: 0})
print(result)
```

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103. Implement a function called my_func() that takes a single positional parameter x and a default parameter y which is equal to 10 and multiplies the two, also returning the result when the function is called.

```
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```

```
def my_func(x, y = 10):
    return x * y

result = my_func(5)
print(result)
```



104. Implement a function called my_func() that takes a single positional parameter x and two default parameters y and z which are equal to 100 and 200 respectively, and adds them together, also returning the result when the function is called.

```
result = my_func(50)
print(result)
```

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```
def my_func(x, y = 100, Z = 200):
    return x + y + Z

result = my_func(50)
print(result)
```



105. Implement a function called my_func() that takes two default parameters x (a list) and y (an integer), and returns the element in x positioned at index y, also printing the result to the screen when called.

```
result = my_func(list(range(2,25,2)), 4)
print(result) #result should be 10
```

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```
def my_func(x, y):
    return x[y]

result = my_func(list(range(2,25,2)),
4)
print(result)
```



106. Implement a function called my_func() that takes a positional parameter x and a variable-length tuple of parameters and returns the result of multiplying x with the second element in the tuple, also returning the result when the function is called.

result = my_func(5, 10, 20, 30, 50) print(result)

```
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```

```
def my func(x, *args):
    return x * args[1]

result = my_func(5, 10, 20, 30, 50)
print(result)
```

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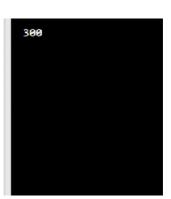


107. Implement a function called my_func() that takes a positional parameter x and a variable-length dictionary of (keyword) parameters and returns the result of multiplying x with the largest value in the dictionary, also returning the result when the function is called.

```
result = my_func(10, val1 = 10, val2 = 15, val3 = 20, val4 = 25, val5 = 30)
print(result)
```

```
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```

```
def my func(x, **kwargs):
    return x * sorted(kwargs.values())
[-1]
result = my func(10, val1 = 10, val2 =
15, val3 = 20, val4 = 25, val5 = 30)
print(result)
```



108. Add the correct line(s) of code inside the function in order to get 200 as a result of calling myfunc() and have the result printed out to the screen.

var = 10
def my_func(x):
 my_func(20)

```
#Edcorner Learning Python Exercises
```

```
var = 10
def my func(x):
    print(x * var)
my_func(20)
```



109. Add the correct line(s) of code inside the function in order to get 100 as a result of calling myfunc() and have the result printed out to the screen.

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```
var = 10

def my func(x):
    var = 5
    print(x * var)

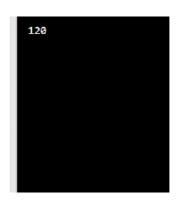
my func(20)
```



110. Make the necessary adjustment inside the function in order to get 120 as a result of calling **myfunc()** and have the result printed out to the screen.

```
def my_func(x):
print(x * var)
var = 12
    my_func(10)
```

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111. Add the necessary line of code inside the function in order to get 80 as a result of calling myfunc() and have the result printed out to the screen.

```
var = 8
def my_func(x):
  print(x * var)
var = 12
my_func(10)
```

```
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var = 8

def my_func(x):
    global var
    print(x * var)
    var = 12

my_func(10)
```



112. Write code that will import only the pi variable from the math module and then it will format it in order to have only 4 digits after the floating point. Of course, print out the result to the screen using the print() function.

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from math import pi
print("%.4f" % pi)



B

113. Add the necessary code in between print's parentheses in order to read the content of test.txt as a string and have the result printed out to the screen.

Solution:

f = open("test.txt", "r")
 print(f.read())

114. Add the necessary code in between print's parentheses in order to read the content of test.txt as a list where each element of the list is a row in the file, and have the result printed out to the screen.

```
f = open("test.txt", "r")
print()
```

```
Solution:
f = open("test.txt", "r")
print(f.readlines())
```

115. Add the necessary code on line 5 in order to bring back the cursor at the very beginning of test.txt before reading from the file once again.

```
f = open("test.txt", "r")
f.read()
  print(f.read())
```

```
Solution:

f = open("test.txt", "r")

f.read()

f.seek(0)

print(f.read())
```

116. Add the necessary code on line 5 (in between the parentheses of print()) in order to get the current position of the cursor inside test.txt and have the result printed out to the screen.

f = open("test.txt", "r")
f.read(5)
print()

```
Solution:
f = open("test.txt", "r")
f.read(5)
print(f.tell())
```

117. Add the necessary code on line 5 (in between the parentheses of print()) in order to get the current mode in which test.txt is open (read, write etc.) and have the result printed out to the screen.

f = open("test.txt", "r")
f.read(5)

print()

```
Solution:
f = open("test.txt", "r")
f.read(5)
print(f.mode)
```

118. Add the necessary file access mode on line 1 in order to open test.txt for appending and reading at the same time.

```
Solution:
f = open("test.txt", "a+")
print(f.mode)
```

119. Add the necessary code on lines 3 and 4 in order to write the string python to test.txt and have the result of reading the file printed out to the screen.

```
f = open("test.txt", "w")
f = open("test.txt", "r")
print(f.read())
```

Solution:

```
f = open("test.txt", "w")
f.write("python")
f.close()
f = open("test.txt", "r")
    print(f.read())
```

120. Add the necessary code on lines 3 and 4 in order to write a list of strings ['python', ' ', 'and', ' 'java'] to test.txt and have the result of reading the file printed out to the screen.

```
f = open("test.txt", "w")
f = open("test.txt", "r")
print(f.read())
```

```
Solution:
    f = open("test.txt", "w")
    f.writelines(['python', ' ', 'and', ' ', 'java'])
f.close()
    f = open("test.txt", "r")
    print(f.read())
```

121. Add the necessary code starting at line 1 in order to write the string python and also close test.txt properly using the with statement.

f = open("test.txt", "r")
print(f.read())

```
Solution :
with open("test.txt", "w") as f:
  f.write("python")

f = open("test.txt", "r")

print(f.read())
```