

For_Loops

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1 For Loop challenges!!

2 Write a for loop so that every item in the list is printed.

```
[43]: lst=["koala", "cat", "fox", "panda", "chipmunk", "sloth", "penguin", "dolphin"]  
      #Type your answer here.  
      print(*lst, sep=", ")
```

koala, cat, fox, panda, chipmunk, sloth, penguin, dolphin

3 Write a for loop which print “Hello!” plus each name in the list. i.e.: “Hello!, Sam”

```
[2]: lst=["Sam", "Lisa", "Micha", "Dave", "Wyatt", "Emma", "Sage"]  
      #Type your code here.  
      for name in lst:  
          print("Hello!, " + name)
```

Hello!, Sam
Hello!, Lisa
Hello!, Micha
Hello!, Dave
Hello!, Wyatt
Hello!, Emma
Hello!, Sage

4 Write a for loop that iterates through a string and prints every letter.

```
[2]: str="Antarctica"  
      #Type your code here.  
      for char in str:  
          print(char)
```

A
n
t

a
r
c
t
i
c
a

5 Type a code inside the for loop so that counter variable named c is increased by one each time loop iterates. Can you guess how many times it will add 1?.

```
[29]: str="Civilization"  
#Type your answer here.
```

6 Using a for loop and .append() method append each item with a Dr. prefix to the lst.

6.1 Info on the .append() method can be found at https://www.w3schools.com/python/ref_list_append.asp

```
[5]: lst1=["Phil", "Oz", "Seuss", "Dre"]  
lst2=[]  
#Type your answer here.  
for name in lst1:  
    print("Dr. " + name)
```

Dr. Phil
Dr. Oz
Dr. Seuss
Dr. Dre

7 Write a for loop which appends the square of each number to the new list.

```
[6]: lst1=[3, 7, 6, 8, 9, 11, 15, 25]  
lst2=[]  
#Type your answer here.  
for square in lst1:  
    print(square**2)
```

9
49
36
64

81
121
225
625

8 Write a for loop using an if statement, that appends each number to the new list if it's positive.

```
[3]: lst1=[111, 32, -9, -45, -17, 9, 85, -10, 0]
      lst2=[]
      lst3=[]

      for num in lst1:
          if num > 0:
              lst2.append(num)
      print(lst2)
```

[111, 32, 9, 85]

9 Write a for loop which appends the type of each element in the first list to the second list.

```
[37]: lst1=[3.14, 66, "Teddy Bear", True, ["hello", "goodbye"], {"goodbye", "hello"}]
      lst2=[]
      #Type your answer here.
```