Congratulations! You passed!

Grade received 83.33% To pass 80% or higher

Go to next item

Given a list of filenames, we want to rename all the files with extension hpp to the extension h. To do this, we
would like to generate a new list called newfilenames, consisting of the new filenames. Fill in the blanks in the
code using any of the methods you've learned thus far, like a for loop or a list comprehension.

1/1 point

```
filenames = ["program.c", "stdio.hpp", "sample.hpp", "a.out", "math.hpp", "hpp.out"]

# Generate newfilenames as a list containing the new filenames
# using as many lines of code as your chosen method requires.

# newfilenames = []

# newname = ""

# for name in filenames:

# in name.endswith("hpp"):

# newname = name.replace("hpp", "h")

# newfilenames.append(newname)

# print(newfilenames)

# print(filenames)

# # print(filenames)

# # print(newfilenames)

# # print(newfilenames)

# # print(newfilenames)

# # should be ["program.c", "stdio.h", "sample.h", "a.out", "math.h", "hpp.out"]

# Reset

['program.c', 'stdio.h', 'sample.h', 'a.out', 'math.h', 'hpp.out']
```

Correc

Great work! You're starting to see the benefits of knowing how to operate with lists and strings.

Let's create a function that turns text into pig latin: a simple text transformation that modifies each word moving
the first character to the end and appending "ay" to the end. For example, python ends up as ythonpay.

1/1 point

```
1 def pig_latin(text):
2 lst = []
3 say = ""
4 # Separate the text into words
5 words = text.split(" ")
6 for word in words:
7 # create the pig_latin word and add it to the list
8 first = word[0]
9 modified = word[1:] + first + "ay"
10 lst.appen(modified)
11 # Turn the list back into a phrase
12 say = "".join(lst)
13 return say
14
15 print(pig_latin("hello how are you")) # Should be "ellohay owhay reaay ouyay" Run
16 print(pig_latin("programming in python is fun")) # Should be "rogrammingpay" riay ythopp
Reset
ellohay owhay reaay ouyay
rogrammingpay niay ythonpay siay unfay
```

⊘ Correct

Nice! You're using some of the best string and list functions to make this work, Great job!

3. Which list method can be used to add a new element to a list at a specified index position?

1/1 point

- O list.pop(index)
- (ist.insert(index, x)
- O list.add(index, x)
- O list.append(x)

⊘ Correct

 $Correct! \ The list.insert (index, x) \ method \ will insert the given "x" \ element into the list at the specified index position.$

4. Tuples and lists are very similar types of sequences. What is the main thing that makes a tuple different from a list?

1/1 point

- O A tuple is mutable
- O A tuple contains only numeric characters
- A tuple is immutable
- A tuple can contain only one type of data at a time

✓ Corre

 $\label{prop:linear} \mbox{Awe some! Unlike lists, tuples are immutable, meaning they can't be changed.}$

5. The group_list function accepts a group name and a list of members, and returns a string with the format: group_name: member1, member2, ... For example, group_list("g", ("a","b","c")) returns "g: a, b, c". Fill in the gaps in this function to do that.

1 def group_list(group, users):
2 members = group +: " + " ".join(users)
3 return members
4
5 print(group_list("Marketing", ["Mike", "Karen", "Jake", "Tasha"])) # Should_be-"Harketi
6 print(group_list("Engineering", ["Kim", "Jay", "Tom"])) # Should be "Engineerings Kim
7 print(group_list("Users", "")) # Should be "Users:"

Marketing: Mike Karen Jake Tasha
Engineering: Kim Jay Tom
Users:

Incorrect

Not quite. Hint: did you use the join method from the lesson on strings? Same rules apply. Pay attention to what you're specifying as the delimiter

6. The guest_list function reads in a list of tuples with the name, age, and profession of each party guest, and prints the sentence "Guest is X years old and works as __" for each one. For example, guest_list(('Ken', 30, "Chef"), ('Pat', 35, 'Lawyer'), ('Amanda', 25, "Engineer'')) should print out: Ken is 30 years old and works as Chef. Pat is 35 years old and works as Lawyer. Amanda is 25 years old and works as Engineer. Fill in the gaps in this function to do that.

1/1 point

0/1 point

```
def guest_list(guests):
for guest in guests
name, age, job = guest
name, age, job = guest
print("() is {) years old and works as {}".format(name, age, job))

guest_list([('Ken', 30, "Chef"), ("Pat", 35, 'Lawyer'), ('Amanda', 25, "Engineer")])

#Click Run to submit code
"""

Output should match:
Ren is 30 years old and works as Chef
Pat is 35 years old and works as Lawyer

Mananda is 25 years old and works as Engineerz

Ken is 30 years old and works as Leayer
Amanda is 25 years old and works as Engineer
```

⊘ Correct

Well done! See how the format methodology combines with tuple functionality to easily create interesting code!