code-challenge1

January 16, 2024

Group Challenge 1:

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Write a program which prompts the user for a measurement in inches, converts to centimeters, and prints out the converted measurement.

[ ]:
```
def convert_in_to_cm():
    inchs = float(input("Enter the length in inch: "))
    return (inchs * 2.54)
```

[ ]:
```
convert_in_to_cm()
```

[ ]:
```
2.54
```

Write a script that takes a user's:
Name
Academic Program
Job Title
Email
Phone number
 Returns an email signature

[ ]:
```
def introduce_yourself():
    name = input("Enter your name: ")
    academic_program = input("Enter the academic program that you are in: ")
    job_title = input("Enter the job title: ")
    email = input("Enter the email: ")
    phone = input("Enter the phone number: ")
    signature = f"{name}\n{academic_program} ||\n{job_title} ||\n{email} ||␣
 ↪{phone}"
    return signature
```

[ ]:
```
print(introduce_yourself())
```

```
Xuyuan
MAE 2023 ||
```

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Use this timeanddate.com site to calculate number of days you have been alive for.
Can be done with variables
Can be done with only values
Can be done with a combination of variables and values

[ ]:
```
from datetime import datetime
def calculate_day_and_seconds():
    year = int(input("Enter your birthday year: "))
    month = int(input("Enter your birthday month: "))
    day = int(input("Enter your birthday day: "))
    birthday = datetime(year, month, day)
    current_date = datetime.now()

    # Calculate the number of days alive
    days_alive = (current_date - birthday).days
    seconds_per_day = 24 * 60 * 60

    days_alive_seconds = days_alive * seconds_per_day

    return (days_alive,days_alive_seconds)
```

[ ]:
```
print(calculate_day_and_seconds()) # 2001, 01, 30
```

(8386, 724550400)

Create a Mad Libs Generator that takes
3 nouns
1 plural noun
1 place
1 adjective
And outputs a mad lib…

Be kind to your [NOUN 1] - footed [PLURAL NOUN]
For a duck may be somebody's [NOUN 2] ,
Be kind to your [PLURAL NOUN] in [PLACE]
Where the weather is always [ADJECTIVE] .

You may think that is this the [NOUN 3] ,
Well it is.

[ ]:
```
def mad_lib_generator():

    noun1 = input('Choose a noun: ')
    plural_noun = input('Choose a plural noun: ')
    noun2 = input('Choose a noun: ')
    place = input('Name a place: ')
    adjective = input('Choose an adjective (Describing word): ')
    noun3 = input('Choose a noun: ')

    mad_lib = (f"----------------------------\n"
               f"Be kind to your {noun1}-footed {plural_noun}\n"
               f"For a duck may be somebody's {noun2},\n"
               f"Be kind to your {plural_noun} in {place}\n"
               f"Where the weather is always {adjective}.\n\n"
               f"You may think that this is the {noun3},\n"
               f"Well, it is.\n"
               f"----------------------------")
    return mad_lib
```

[ ]:
```
print(mad_lib_generator())
```

```
----------------------------
Be kind to your 1-footed 2
For a duck may be somebody's 3,
Be kind to your 2 in 4
Where the weather is always 5.

You may think that this is the 6,
Well, it is.
----------------------------
```

[ ]:
```

```