Assignment 3

Q1. Define a function overlapping () that takes two lists and returns True if they have at least one member in common, False otherwise.

```
1 l1=[1,2,3,4,5]
2 l2=[9,6,7,8]
3 print(overlapping(l1,l2))
✓ 0.0s
False
```

```
1 l1=[1,2,3,4,5]
2 l2=[9,6,7,8]
3 overlapping(l1,l2)

✓ 0.0s

False
```

```
def overlapping(11,12):
    len1=len(11)
    len2=len(12)
    s=set(11+12)
    len3=len(s)

if len3!=len1+len2:
    return True
elif len3==len1+len2:
    return False
```

Q.2. Write a function find_longest_word() to find the longest word from the list of words

```
def find_longest_word(l1):
    longest_word=''
    for i in l1:
        if len(i)>len(longest_word):
            longest_word=i
        return longest_word
```

Q.3.In English, present participle is formed by adding suffix -ing to infinite form: go -> going. A simple set of rules can be given as follows:

- a. If the verb ends in e, drop the e and add ing
- b. If the verb ends in ie, change ie to y and add ing

Write a function make_ing_form() which accepts a list of verbs and returns a dictionary with verb : present participle

```
def make_ing_form(l1):
    d1={}
    for i in l1:
        word=i
        if word[-1]=='e':
            word=word[:-1]
        if word[-1]=='i':
            word=word[:-1]+'y'
        word=word+'ing'
        d1[i]=f'{word}'
    print(d1)
```

Q.4. Decorate the display_greeting() function using a decorator so that greeting is displayed in uppercase

```
def display_greeting(str):
    return str.upper()
```

Q. 5. Create a infinite series on fib numbers and print first few

```
1 fib_numbers(11)

view 0.0s

[0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55]
```

```
def fib_numbers(m):
    fibo = [0, 1]
    for _ in range(2, m):
        fibo.append(fibo[-1] + fibo[-2])
    return fibo
```

Q.6

- 1.Find employees that know 'python'
- 2. Add a new skill 'test' in skillset of all employees
- 3. Sort employees by skills

for the given dictionary of employees

```
emp_data = {'Amol': ['C', 'C++', 'Java'], 'Aditya': ['Angular', 'Java'],
```

'Aditi': ['Python', 'PHP', 'Database']}

Q.7 Following data displays min/max/average temp for cities

```
weather= [{'Mumbai' : [28, 30, 32]},.....]
```

1. Print the weather data

2. Print the city with maximum/min temp

```
1 # 2. Print the city with maximum/min temp
   2 max temp=-float('inf')
   3 min_temp=float('inf')
   4 max_city=None
   5 min_city=None
   6 for k in weather:
          city=list(k.keys())[0]
          current_min=k[city][0]
          current_max=k[city][1]
          if current_max>max_temp:
  11
              max_temp=current_max
  12
              max_city=city
          if current min<min temp:
  13
              min_temp=current_min
  15
              min_city=city
      print(f'{max_city} with {max_temp}')
  17
      print(f'{min_city} with {min_temp}')
  18
  19
✓ 0.0s
Delhi with 41
Srinagar with 5
```

3. Print all the cities that expereince min temp more than 30 degree

4. Create a dictionary to print 'City': 'Ave temp'

Rotate Array

Output Window Compilation Results Custom Input Y.O.G.I. (AI Bot) Problem Solved Successfully Test Cases Passed 1115 / 1115 3 / 7 Accuracy: 42%

Time Taken

0.53