

Assignment 5

1. WAP using time module and for loop to print loading in animated form.

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Code and Output:

```
import time
str1 = 'loading...'
print(time.ctime())
for i in str1:
    time.sleep(1)
    print(i, end = ' ')
print(f'\n{time.ctime()}')
```

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2. Difference between return and yield.

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Yield	Return
It is used to define generators.	It causes a function to exit.
It replaces the return value of a function to suspend its execution without destroying local variables.	It terminates the value of a function and destroys the local variables.
It is used when the generator returns an intermediate result to the caller.	It is used when a function is ready to send the value back to the caller.

3. Make a Digital Clock and run it for 5 seconds.

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Code and Output:

```
import time
starting_time = datetime.now()
starting_time = int(starting_time.strftime('%H%m%s'))
while True:
    from datetime import datetime
    current_time1 = datetime.now()
    current_time2 = int(current_time1.strftime('%H%m%s'))
    print ("%s:%s:%s" % (current_time1.hour,current_time1.minute,current_time1.second))
    time.sleep(1)
    if starting_time + 4 == current_time2:
        break
```

```
10:37:50
10:37:51
10:37:52
10:37:53
10:37:54
```

4. Add an extra element 5 to the following tuple and print it.

tuple = (1, 2, 3, 4)

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Code and Output:

```
tuple1 = (1, 2, 3, 4)
list1 = list(tuple1)
list1.append(5)
tuple2 = tuple(list1)
print(f'Old Tuple: {tuple1}')
print(f'Modified Tuple: {tuple2}')
```

```
Old Tuple: (1, 2, 3, 4)
Modified Tuple: (1, 2, 3, 4, 5)
```

5. Whatsapp Texting using webbrowser library.

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Code:

```
import webbrowser
import time
import datetime

name = input('Enter the contact number of a person you want to send message in WhatsApp: ')
message = input('Enter the message: ')
time1 = input('Enter time in {hh:mm:ss} format: ')
print(f'Time entered by user: {time1}')

while True:
    current_time = time.ctime()
    time_format = current_time[11:19]
    time.sleep(1)
    print(f'Current time: {time_format}')
    if time1 == time_format:
        webbrowser.open_new_tab(f'https://web.whatsapp.com/send?phone=+91{name}&text={message}')
        break
    elif time1 < time_format:
        print('Enter correct time')
        break
    else:
        print('waiting..')
```

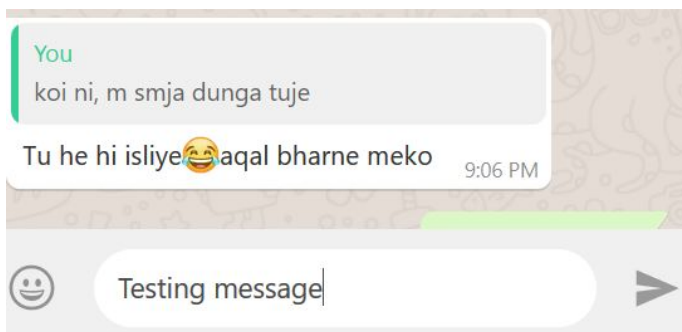
Output:

Case1-

```
Enter the contact number of a person you want to send message in WhatsApp: 6266942286
Enter the message: Testing Message
Enter time in {hh:mm:ss} format: 20:56:00
Time entered by user: 20:56:00
Current time: 22:08:00
Enter correct time

Process finished with exit code 0
```

Case2-



```
Enter the contact number of a person you want to send message in WhatsApp: 8268942286
Enter the message: Testing message
Enter time in {hh:mm:ss} format: 22:11:00
Time entered by user: 22:11:00
Current time: 22:10:40
waiting..
Current time: 22:10:41
waiting..
Current time: 22:10:42
waiting..
Current time: 22:10:43
waiting..
Current time: 22:10:44
waiting..
Current time: 22:10:45
waiting..
Current time: 22:10:46
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Current time: 22:10:47
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Current time: 22:10:57
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Current time: 22:10:58
waiting..
Current time: 22:10:59
waiting..
Current time: 22:11:00

Process finished with exit code 0
|
```