Name: Nilesh Kawar

Roll no.: 59

Basic exercise on python

Q1.

Aim: Write a Python program to print the following string in a specific format

Sample String : "Twinkle, twinkle, little star, How I wonder what you are! Up above the world so high, Like a diamond in the sky. Twinkle, twinkle, little star, How I wonder what you are"

Output :

Twinkle, twinkle, little star,

How I wonder what you are!

Up above the world so high,

Like a diamond in the sky.

Twinkle, twinkle, little star,

How I wonder what you are

Code:

```
print('''Twinkle, twinkle, little star,
    How I wonder what you are!
                    Up above the world so high,

                    Like a diamond in the sky.
Twinkle, twinkle, little star,
          How I wonder what you are''')
```

Output:

```
print('''Twinkle, twinkle, little star,
    How I wonder what you are!
                    Up above the world so high,
                    Like a diamond in the sky.
Twinkle, twinkle, little star,
         How I wonder what you are''')
```

```
Twinkle, twinkle, little star,
        How I wonder what you are!
                        Up above the world so high,
                        Like a diamond in the sky.
Twinkle, twinkle, little star,
                How I wonder what you are
```

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Q2.

Aim: Write a Python program which accepts the radius of a circle from the user and compute the area.

Code:

```
radius=float (input("Enter radius "))
print("Area of circle is : " + str( radius*radius*3.14))
```

Output:

```
radius=float (input("Enter radius "))
print("Area of circle is : " + str( radius*radius*3.14))
```

```
Enter radius 10
Area of circle is : 314.0
```

Q3.

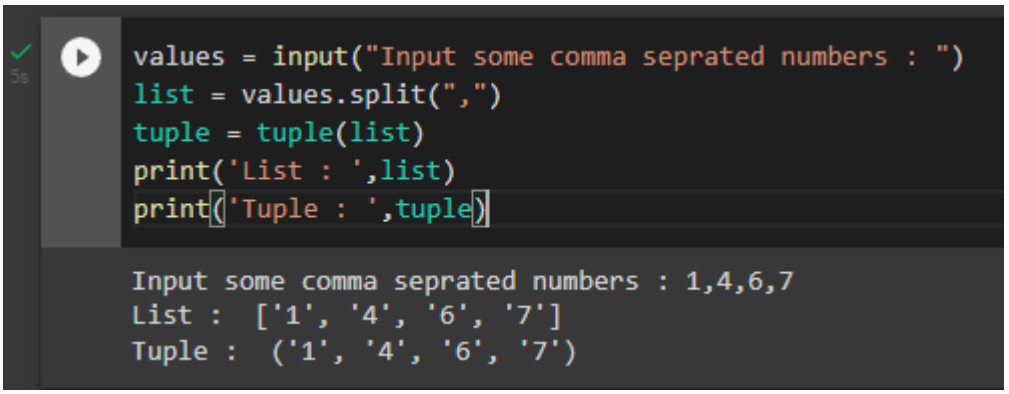
Aim: Write a Python program which accepts a sequence of comma-separated numbers from the user and generates a list and a tuple with those numbers

Code:

```
values = input("Input some comma seprated numbers : ")
list = values.split(",")
tuple = tuple(list)
print('List : ',list)
```

```
print('Tuple : ',tuple)
```

Output:



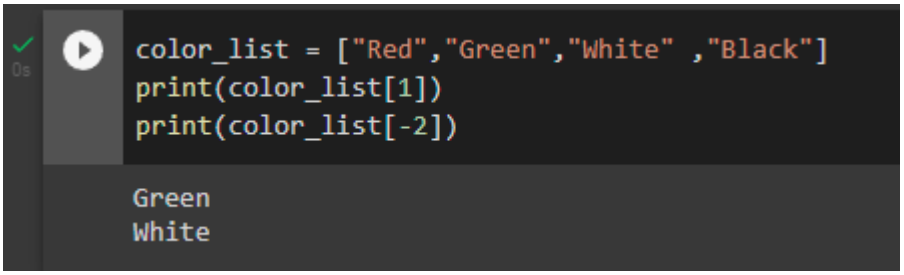
Q4.

Aim: Write a Python program to display the first and last colors from the following list. color_list = ["Red","Green","White" ,"Black"]

Code:

```
color_list = ["Red","Green","White" ,"Black"]
print(color_list[1])
print(color_list[-2])
```

Output:



Q5.

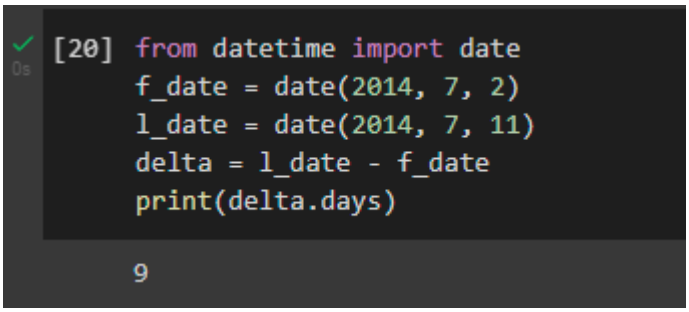
Aim: Write a Python program to calculate the number of days between two dates.

Sample dates : (2014, 7, 2), (2014, 7, 11)

Code:

```
from datetime import date
f_date = date(2014, 7, 2)
l_date = date(2014, 7, 11)
delta = l_date - f_date
print(delta.days)
```

Output:



Q6.

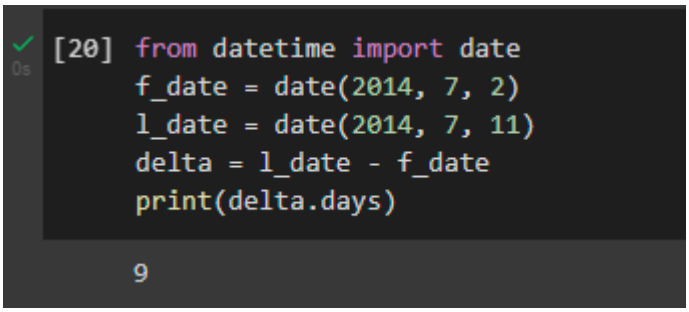
Aim: Write a Python program to calculate the number of days between two dates.

Sample dates : (2014, 7, 2), (2014, 7, 11)

Code:

```
from datetime import date
f_date = date(2014, 7, 2)
l_date = date(2014, 7, 11)
delta = l_date - f_date
print(delta.days)
```

Output:



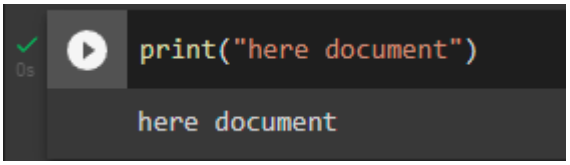
Q7. Write a Python program to print the following 'here document'.

Aim:

Code:

```
print("here document")
```

Output:



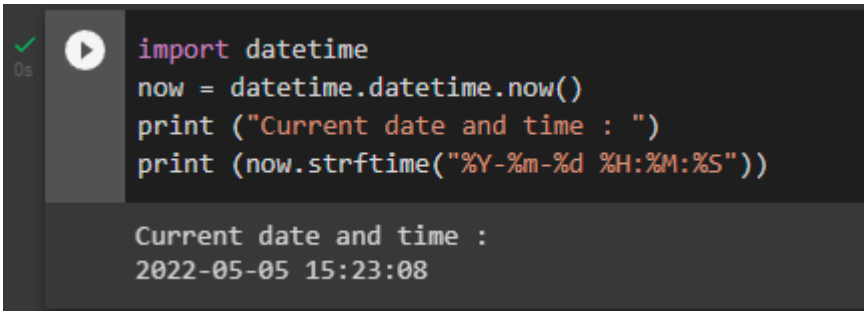
Q8.

Aim: Write a Python program to display the current date and time.

Code:

```
import datetime
now = datetime.datetime.now()
print ("Current date and time : ")
print (now.strftime("%Y-%m-%d %H:%M:%S"))
```

Output:



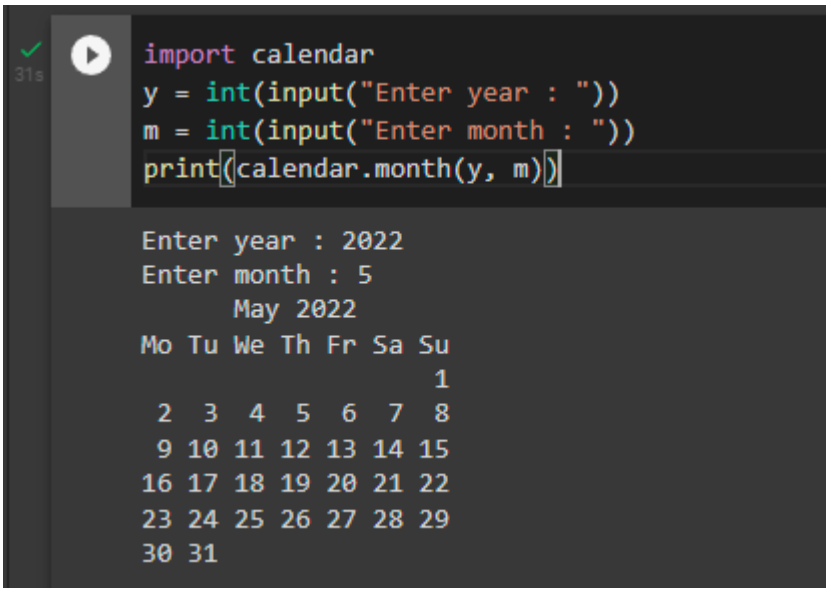
Q9.

Aim: Write a Python program to print the calendar of a given month and year.

Code:

```
import calendar
y = int(input("Enter year : "))
m = int(input("Enter month : "))
print(calendar.month(y, m))
```

Output:


import calendar
y = int(input("Enter year : "))
m = int(input("Enter month : "))
print(calendar.month(y, m))
Enter year : 2022
Enter month : 5
May 2022
Mo Tu We Th Fr Sa Su
1
2 3 4 5 6 7 8
9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31