SHUBHAM GOSWAMI

ROLL NO-14

5.WAP to demonstrate thread synchronization in multithreading.

```
from threading import *
import time

def wish(name,age):
   for i in range(3):
       print("Hi",name)
       time.sleep(2)
       print("Your age is",age)

t1=Thread(target=wish, args=("Sireesh",15))
t2=Thread(target=wish, args=("Nitya",20))

t1.start()
t2.start()
```

```
Hi Sireesh
Hi Nitya
Your age is 15
Your age is 20
Hi Nitya
Hi Sireesh
Your age is 20
Your age is 15
Hi Nitya
Hi Sireesh
Your age is 20
Your age is 15
```

10.write a code to show the use of generator function.

A generator function that yields 1 for first time,

2 second time and 3 third time

def simpleGeneratorFun():

    yield 1

    yield 2

    yield 3

```
# Driver code to check above generator function
for value in simpleGeneratorFun():
        print(value)
```

output

1

2

3

11.write program to show inheritance in pythons.

```
class Person(object):

# Constructor
def __init__(self, name, id):
        self.name = name
        self.id = id

# To check if this person is an employee
def Display(self):
        print(self.name, self.id)



# Driver code
```

```
emp = Person("Satyam", 102) # An Object of Person
emp.Display()
```

output

```
Satyam 102
```

16.WAP code to show different types of plot in python(line,bar,pie,subplots etc)

```
# Import libraries
from matplotlib import pyplot as plt
import numpy as np


# Creating dataset
cars = ['AUDI', 'BMW', 'FORD',
                'TESLA', 'JAGUAR', 'MERCEDES']

data = [23, 17, 35, 29, 12, 41]

# Creating plot
fig = plt.figure(figsize =(10, 7))
plt.pie(data, labels = cars)
```

show plot

plt.show()

OUTPUT