'''

Experiment 10 : Programs on Threading using python.

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THEORY:

Thread:

In computing, a process is an instance of a computer program that is being executed. Any process has 3 basic components.

Multithreading:

Multiple threads can exist within one process where:

Each thread contains its own register set and local variables (stored in stack).

All thread of a process share global variables (stored in heap) and the program code.

Multithreading is defined as the ability of a processor to execute multiple threads concurrently.

In Python, the threading module provides a very simple and intuitive API for spawning multiple threads in a program.

'''

```
from threading import *


class A(Thread):
    def run(self):
    for i in range(50):
    print('A')
```

```
class B(Thread):
    def run(self):
    for i in range(50):
    print('B')


def main():
    a = A()
    b = B()
    #b = Thread(target=B.run, args=(B(),))
    a.start()
    b.start()
    a.join()
    b.join()
    print('Done')


if __name__ == '__main__':
    main()

'''
OUTPUT:
A
AB
B
B
B
B
AB
B
```

A

A

A

A

A

A

A

A

B

AB

A

A

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Done

CONCLUSION: In this experiment we have successfully implemented Multithreading with Python.

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