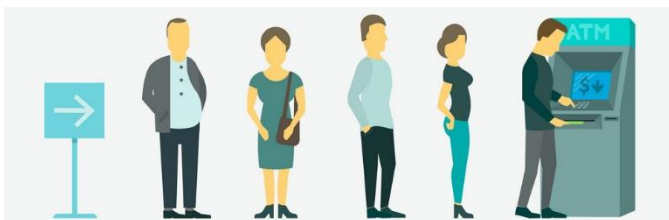


Exercise 4

1. Develop a program to handling queue by *collections.deque* class. This program simulates the Queue for ATM services.



This program should able to perform the following tasks:

- A. Input the name for the people waiting for service until user input “End”. The number of people in the queue should be print out.
- B. Search for people in the queue and return the number of people in front of him.

```
Please input the name: John
Please input the name: Ken
Please input the name: May
Please input the name: End
3 people are queuing for service.
```

```
Who are you looking for? Ken
Ken need to wait for 1 more people until get service
```

2. Develop a program to read the file “*python.txt*”, and perform the following tasks:
 - A. Count the number of word in the file
 - B. Find the longest words in the file

```
Number of Words in File: 241
The longest word is: object-oriented,
```

3. Read the tab delimited text file “*Schedule.txt*”. Then calculate the duration for each task and output in following format:

```
Task    Duration
=====
Task 1  15 days
Task 2  17 days
Task 3  18 days
Task 4  23 days
Task 5  15 days
Task 6  17 days
Task 7  20 days
Task 8   5 days
Task 9  18 days
Task 10 17 days
```