

### 1. WAP to create a stack using just two queues.

#### Solution:

```
import java.util.LinkedList;

import java.util.Queue;

public class StackUsing2Queues {

    static class Stack{

        Queue<Integer> q1 = new LinkedList<>();

        Queue<Integer> q2 = new LinkedList<>();

        boolean isEmpty() {

            return q1.isEmpty();

        }

        void push(int data) {

            while(!q1.isEmpty())

                q2.add(q1.remove());

            q1.add(data);

            while(!q2.isEmpty())

                q1.add(q2.remove());

        }

        int pop() {

            if(q1.isEmpty()) {

                System.out.println("empty");

                return -1;

            }

            return q1.remove();

        }

    }

}
```

```
int peek() {  
    if(q1.isEmpty()) {  
        System.out.println("empty");  
        return -1;  
    }  
    return q1.peek();  
}  
  
}  
  
public static void main(String[] args) {  
    Stack s = new Stack();  
  
    s.push(1);  
    s.push(2);  
    s.push(3);  
    s.push(3);  
    s.push(5);  
  
    s.peek();  
    s.pop();  
}
```

### 3. Assignment-03:

A. Create a salesforce developer account -<https://developer.salesforce.com/signup>

B. Follow this assignment and finish the Hands-on Challenge: [Schedule Jobs Using the Apex Scheduler Unit | Salesforce Trailhead](#)

#### Solution:

##### DailyLeadProcessor.apxc

```
public class DailyLeadProcessor implements Schedulable{

    public void execute(SchedulableContext ctx){

        List<Lead> leads = [SELECT Id, LeadSource FROM Lead WHERE LeadSource = null LIMIT 200];

        for(Lead l : leads){

            l.LeadSource = 'Dreamforce';

        }

        update leads;

    }

}
```

##### DailyLeadProcessorTest.apxc

@isTest

```
public class DailyLeadProcessorTest {

    private static String CRON_EXP = '0 0 0 ? * * *';

    @isTest

    private static void testSchedulableClass(){

        List<Lead> leads = new List<Lead>();

        for(Integer i=0; i<500; i++){

            if(i<250){

                leads.add(new Lead(LastName='Ansari', Company='Salesforce'));

            }else{

            }
```

```
        leads.add(new Lead(LastName='Ansari', Company='Salesforce', LeadSource='Other'));
    }
}

insert leads;

Test.startTest();

String jobId = System.schedule('Process Leads', CRON_EXP, new DailyLeadProcessor());

Test.stopTest();

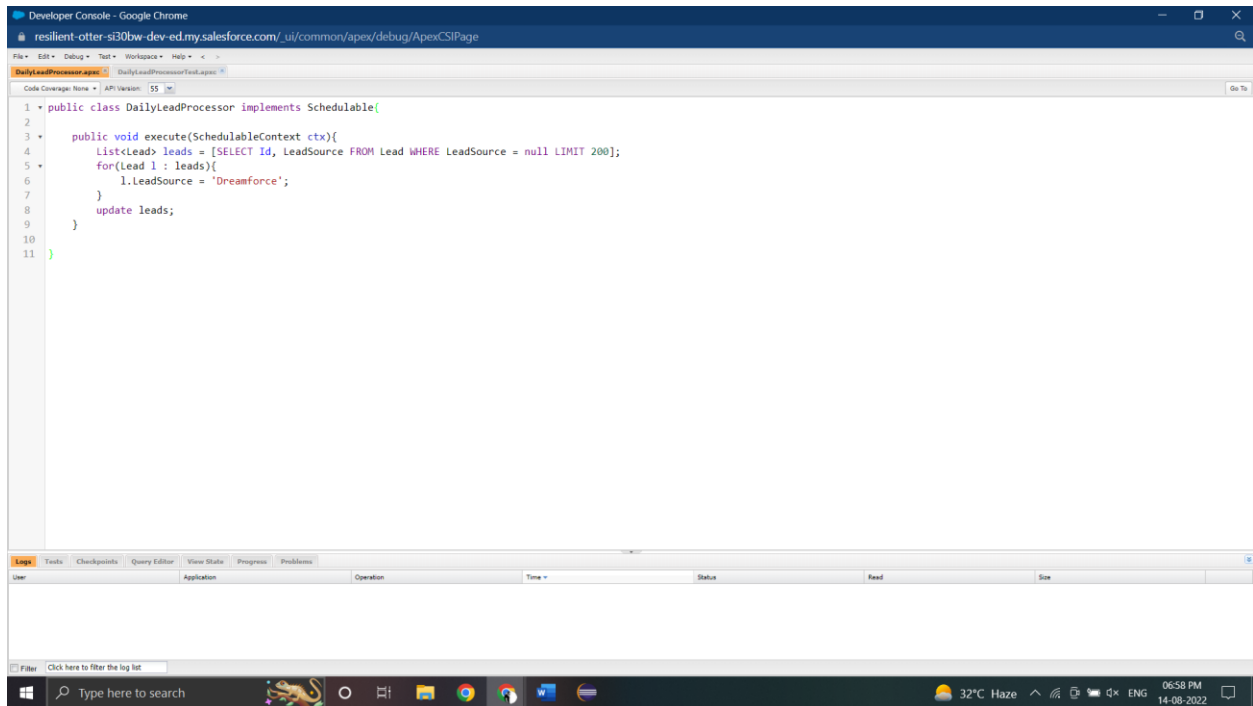

List<Lead> updateLeads = [SELECT Id,LeadSource FROM Lead WHERE LeadSource='DreamForce'];

System.assertEquals(200, updateLeads.size(), 'ERROR: At least 1 record not updated correctly');

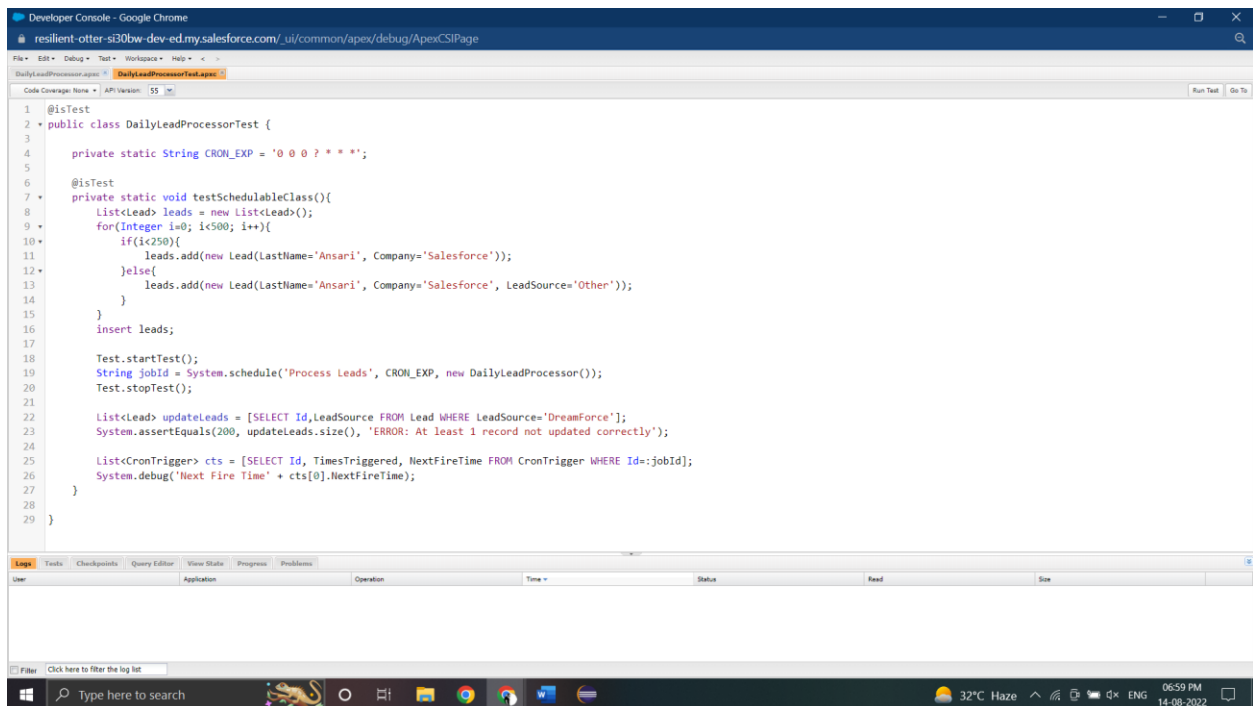

List<CronTrigger> cts = [SELECT Id, TimesTriggered, NextFireTime FROM CronTrigger WHERE
Id=:jobId];

    System.debug('Next Fire Time' + cts[0].NextFireTime);
}
}
```

## DailyLeadProcessor.apxc



## DailyLeadProcessorTest.apxc



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Asynchronous Apex > Schedule Jobs Using the Apex Scheduler

**Resources**

- Apex Scheduler
- Execution Governors and Limits

**ASSESSMENT COMPLETE!**

**+500 points**

Asynchronous Apex  
16%  
Retake this Challenge

Next unit: Monitor Asynchronous Apex

**Learning Objectives**

- Follow Along with Trail Together
- Scheduled Apex
- Scheduled Apex Syntax
- Sample Code
- Using the System.Schedule Method
- Scheduling a Job from the UI
- Testing Scheduled Apex
- Things to Remember
- Resources

Challenge **+500 points**

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