

Asynchronous Apex

Schedule Jobs Using the Apex Scheduler

DailyLeadProcessor Code:

```
global class DailyLeadProcessor implements Schedulable{
    global void execute(SchedulableContext ctx){
        List<Lead> leads = [SELECT Id, LeadSource FROM Lead WHERE
        LeadSource = "];

        if(leads.size() > 0){
            List<Lead> newLeads = new List<Lead>();

            for(Lead lead : leads){
                lead.LeadSource = 'DreamForce';
                newLeads.add(lead);
            }

            update newLeads;
        }
    }
}
```

DailyLeadProcessorTest:

@isTest

```
private class DailyLeadProcessorTest{
```

```
//Seconds Minutes Hours Day_of_month Month Day_of_week  
optional_year
```

```
public static String CRON_EXP = '0 0 0 2 6 ? 2022';
```

```
static testmethod void testScheduledJob(){
```

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

```
for(Integer i = 0; i < 200; i++){
```

```
Lead lead = new Lead(LastName = 'Test ' + i, LeadSource = '', Company  
= 'Test Company ' + i, Status = 'Open - Not Contacted');
```

```
leads.add(lead);
```

```
}
```

```
insert leads;
```

```
Test.startTest();
```

```
// Schedule the test job
```

```
String jobId = System.schedule('Update LeadSource to DreamForce',  
CRON_EXP, new DailyLeadProcessor());
```

```
// Stopping the test will run the job synchronously
```

```
Test.stopTest();
```

```
}
```

```
}
```