

# Control Processes with Queueable Apex

## Apex Class

```
public class AddPrimaryContact implements Queueable{

    Contact con;

    String state;

    public AddPrimaryContact(Contact con, String state){
        this.con = con;
        this.state = state;
    }

    public void execute(QueueableContext qc){
        List<Account> lstOfAccs = [SELECT Id FROM Account WHERE BillingState = :state LIMIT 200];

        List<Contact> lstOfConts = new List<Contact>();
        for(Account acc : lstOfAccs){
            Contact conInst = con.clone(false,false,false,false);
            conInst.AccountId = acc.Id;

            lstOfConts.add(conInst);
        }

        INSERT lstOfConts;
    }
}
```

## Apex Test Class

@isTest

```
public class AddPrimaryContactTest{

    @testSetup
    static void setup(){
        List<Account> lstOfAcc = new List<Account>();
        for(Integer i = 1; i <= 100; i++){
            if(i <= 50)
                lstOfAcc.add(new Account(name='AC'+i, BillingState = 'NY'));
            else
                lstOfAcc.add(new Account(name='AC'+i, BillingState = 'CA'));
        }

        INSERT lstOfAcc;
    }

    static testmethod void testAddPrimaryContact(){
        Contact con = new Contact(LastName = 'TestCont');
        AddPrimaryContact addPCIns = new AddPrimaryContact(CON , 'CA');

        Test.startTest();
        System.enqueueJob(addPCIns);
        Test.stopTest();

        System.assertEquals(50, [select count() from Contact]);
    }
}
```