

**Project Name: Sales Automobile Using Salesforce CRM**

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## LWC Component:

### Create Apex Class To Get Invoices

1. Login to the respective account and navigate to the gear icon in the top right corner.
2. Click on the Developer console.
3. Now you will see a new console window.
4. In the toolbar, you can see FILE.
5. Click on it and navigate to new and create New apex class.
6. Name the class as "OpportunityInvoiceswithLWC".

#### Code:

```
public class OpportunityInvoiceswithLWC {  
    @AuraEnabled(cacheable=true)  
    public static List<Invoice__c> getInvoices(string OpportunityId){  
        return [SELECT Id, Quantity__c, Purchase_Date__c, Opportunity__c,  
Unit_Price__c, Total_Price__c, Name FROM Invoice__c WHERE Opportunity__c =:  
OpportunityId];  
    }  
  
}
```

### Install Salesforce CLI

The Salesforce CLI is a powerful command line interface that simplifies development and build automation when working with your Salesforce org.

[Download and install Salesforce CLI](#)

To confirm that the Salesforce CLI is installed and working correctly, you can open a command prompt and type sfdx. This will display the version number of the Salesforce CLI that is currently installed on your system.

```
C:\Users\ navee>sfdx
Salesforce CLI

VERSION
  sfdx-cli/7.182.1 win32-x64 node-v18.12.1

USAGE
  $ sfdx [COMMAND]

TOPICS
  alias      manage username aliases
  auth       authorize an org for use with the Salesforce CLI
  config     configure the Salesforce CLI
  force      tools for the Salesforce developer
  info       access cli info from the command line
  plugins    add/remove/create CLI plug-ins
  version

codekiat.com
```

## Install Microsoft VS Code

VS Code, or Visual Studio Code, is a free, open-source code editor developed by Microsoft. It is a lightweight, cross-platform code editor that provides features such as debugging, Git integration, and support for a wide range of programming languages.

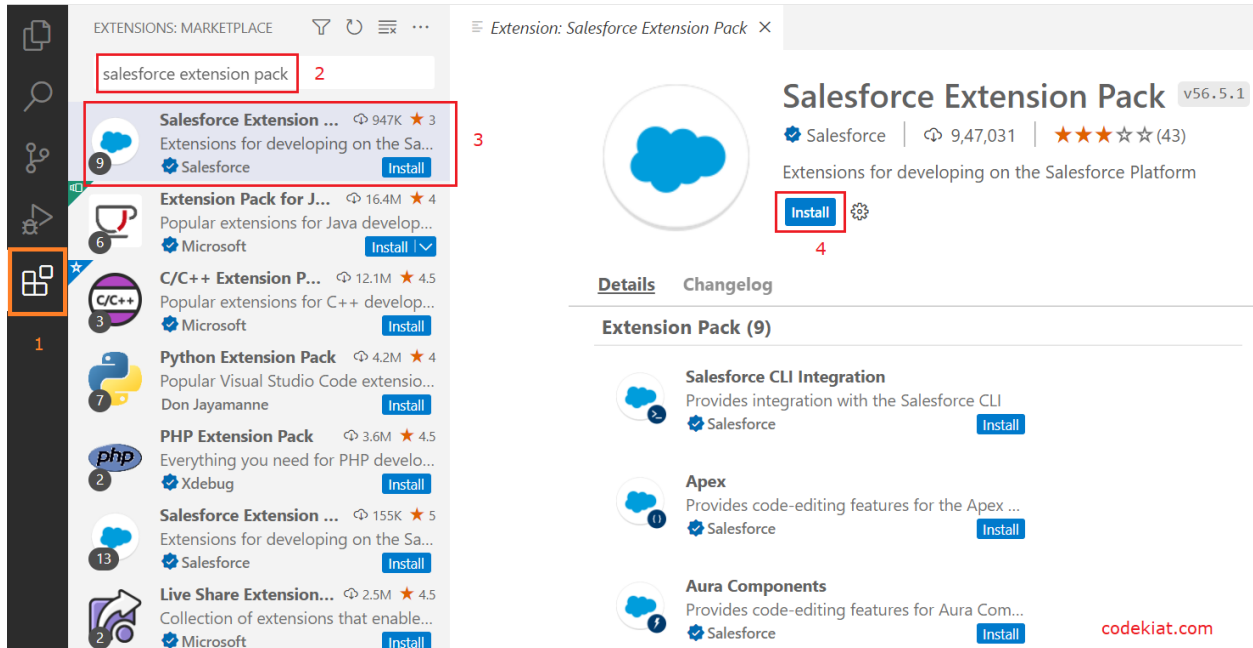
[Download the version of the software](#) that is compatible with your operating system and install it.

The following instructions are for Windows OS. Other operating systems may have slightly different steps.

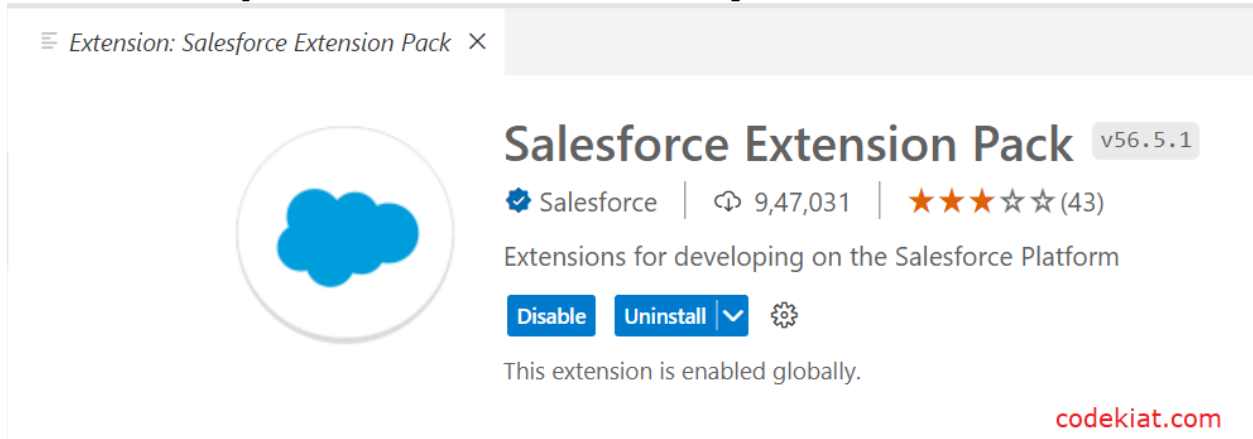
## Install The Salesforce Extension Pack

**In the VS Code,**

1. go to extensions (1) as shown in the image below.
2. Search with the Salesforce extension pack (2) as shown in the image below.
3. select Salesforce Extension Pack from the list (3) as shown in the image below.
4. Click the Install button (4) as shown in the image below.



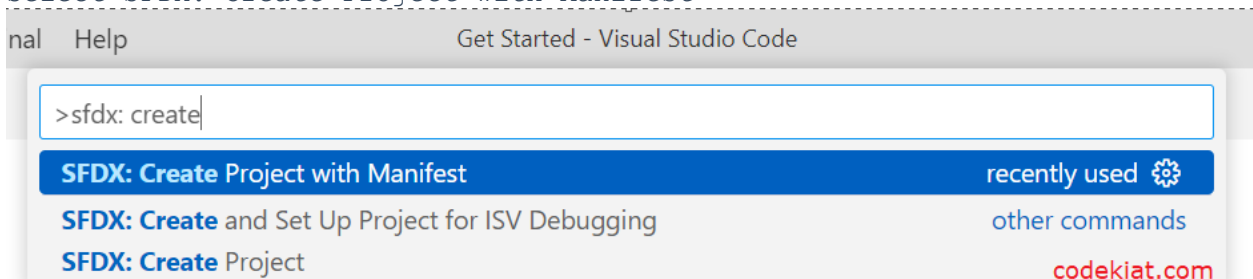
The extension pack is installed successfully



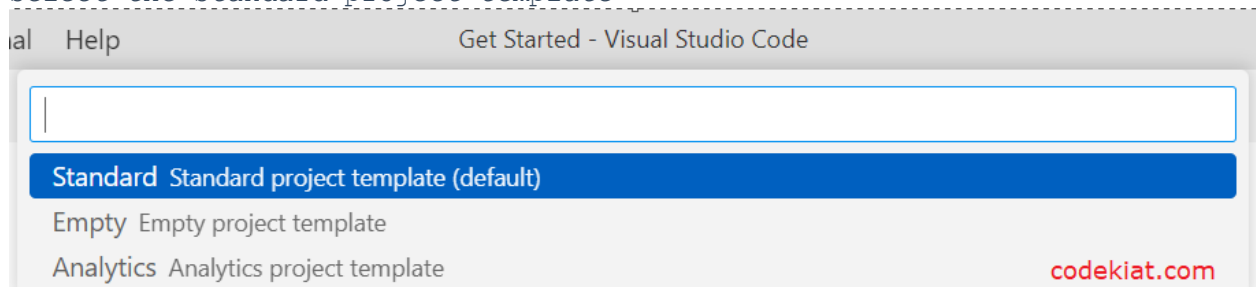
Install the Salesforce Extension Pack

## Create A Project In VS Code

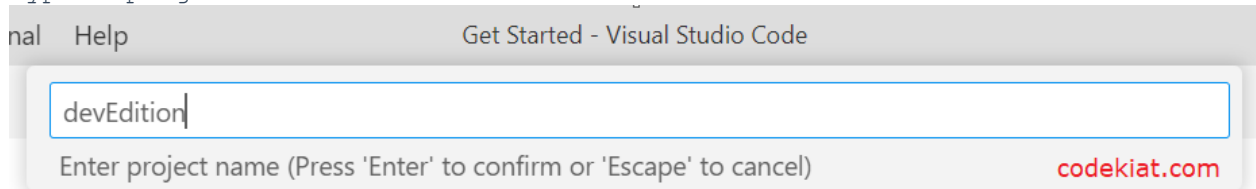
1. Press CTRL + SHIFT + P, type `sfdx: create`
2. select SFDX: Create Project with Manifest



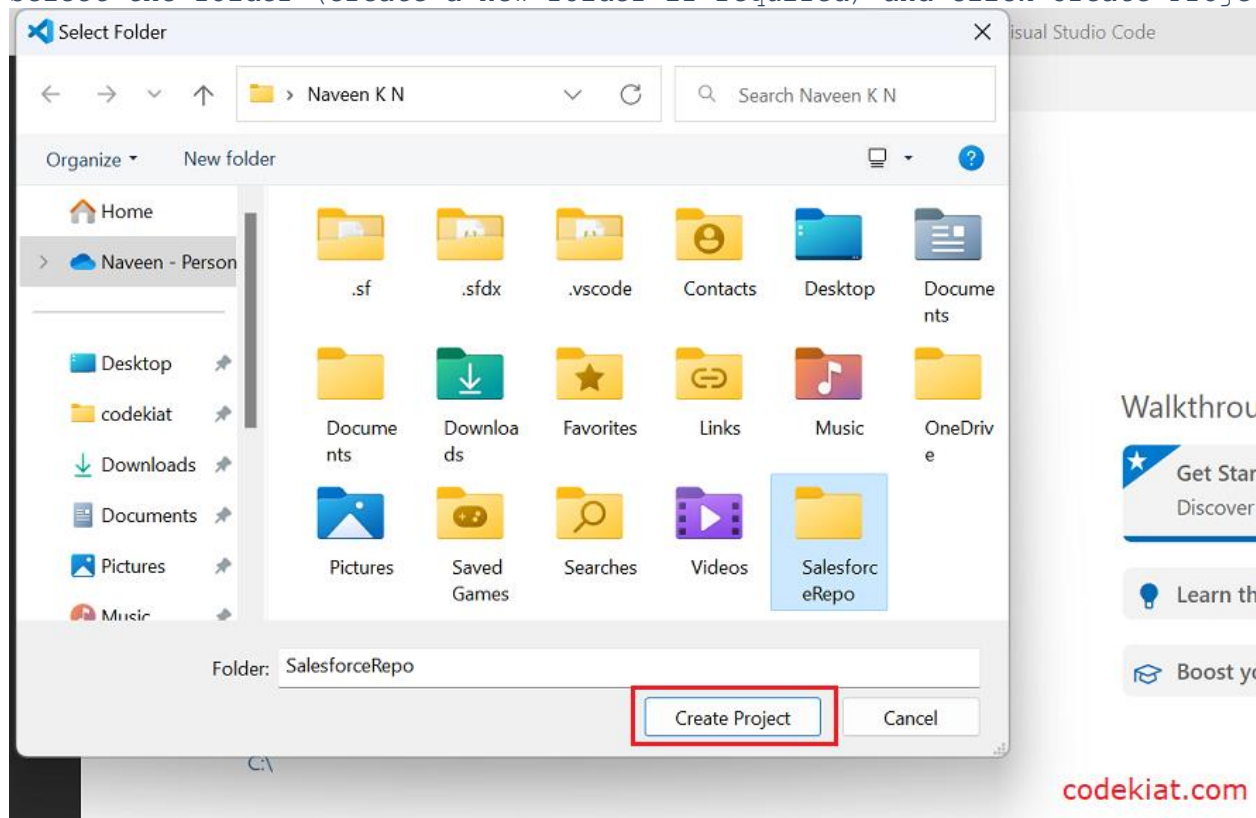
3. Select the Standard project template



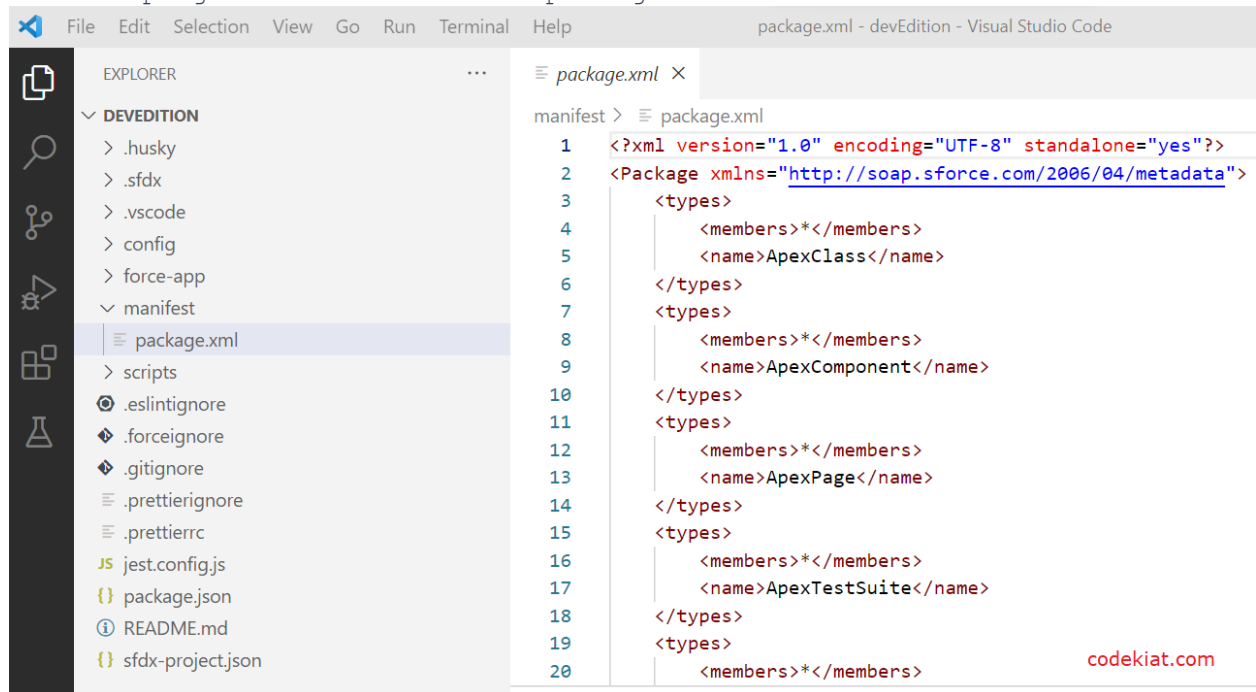
4. Type a project name and Click Enter.



5. Select the folder (create a new folder if required) and click Create Project



6. The new project is created with package.xml



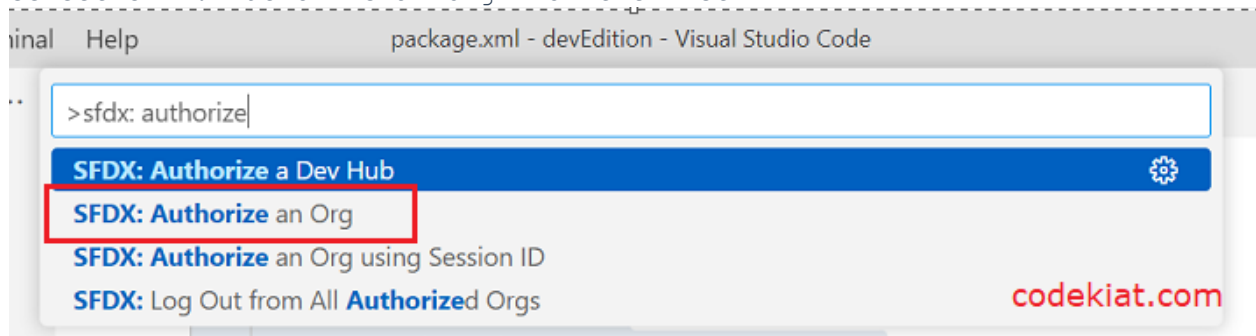
Default Package.xml contains various metadata types. I have updated Package.xml as shown below as we deal only with LWC in this article.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<Package xmlns="http://soap.sforce.com/2006/04/metadata">
  <types>
    <members>*</members>
    <name>LightningComponentBundle</name>
  </types>
  <version>55.0</version>
</Package>
```

## Authorize An Org

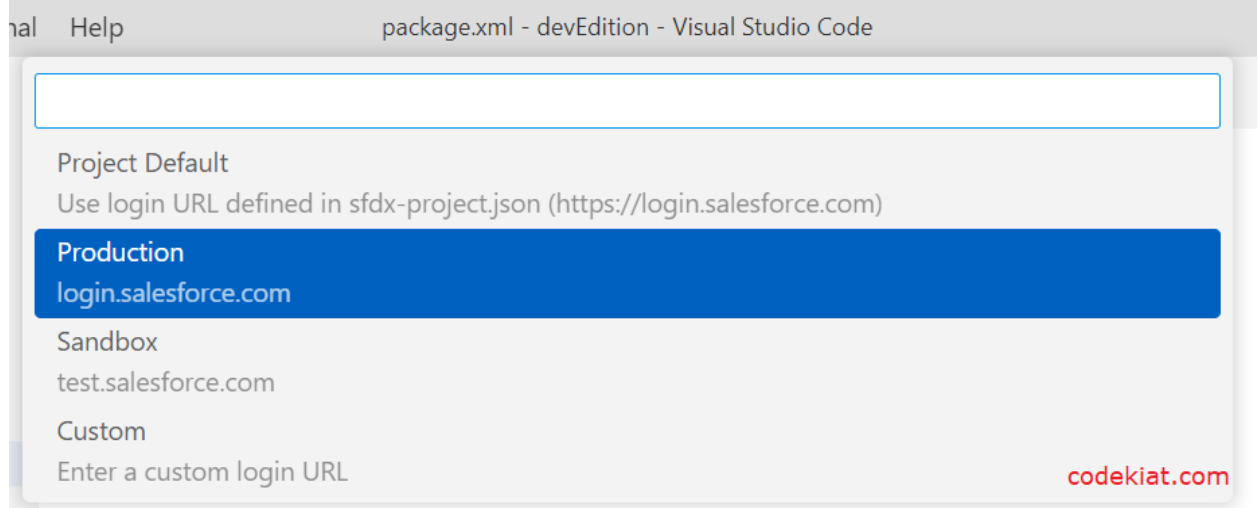
**Establish a connection between the local project and the Salesforce instance to retrieve and deploy the components.**

1. Press CTRL + SHIFT + P, type sfdx: authorize.
2. select SFDX: Authorize an Org from the list



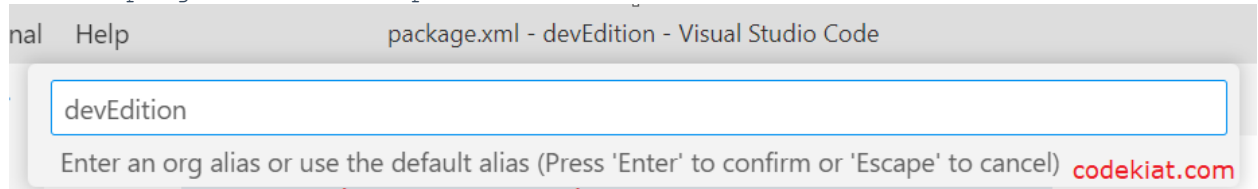
3. Choose your Salesforce instance.  
For developer edition and production instances select

Production.



4. For this demonstration, I used the developer edition, hence it is Production.

5. Give a project name and press Enter




6. The Salesforce login page opens in the browser.

7. Enter the credentials and click Log In

login.salesforce.com/?startURL=%2Fsetup%2Fsecur%2FRemoteAc

codekiat.com



Username 1 Saved Username

Password

**Log In**

☒ Remember me

[Forgot Your Password?](#) [Use Custom Domain](#)

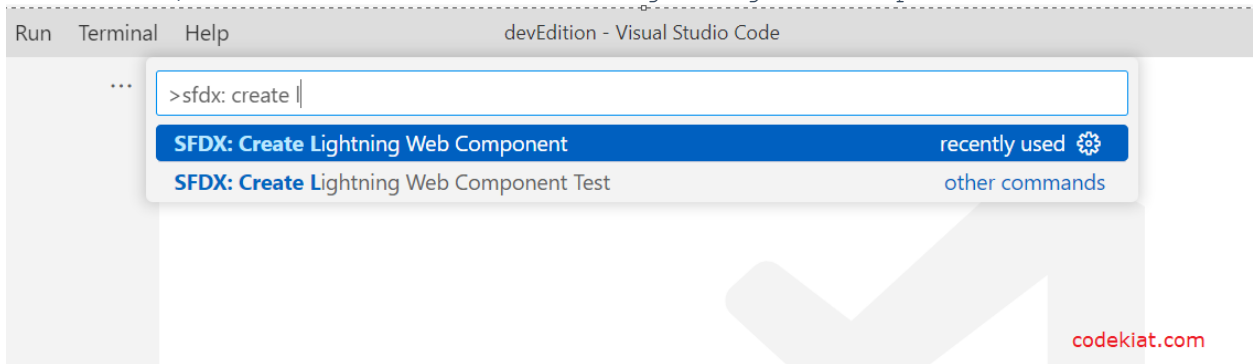
8. It will be successfully authorized.

## Create Lightning Web Component

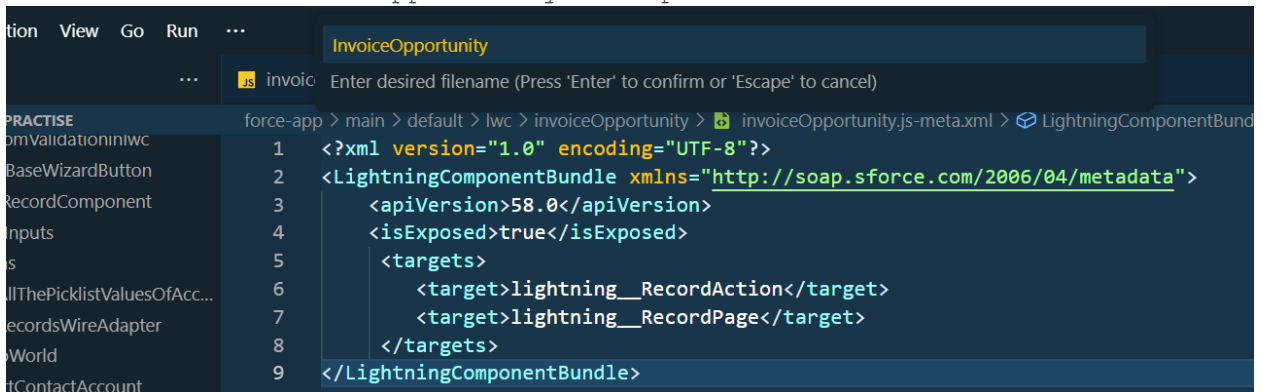
**XML File :**



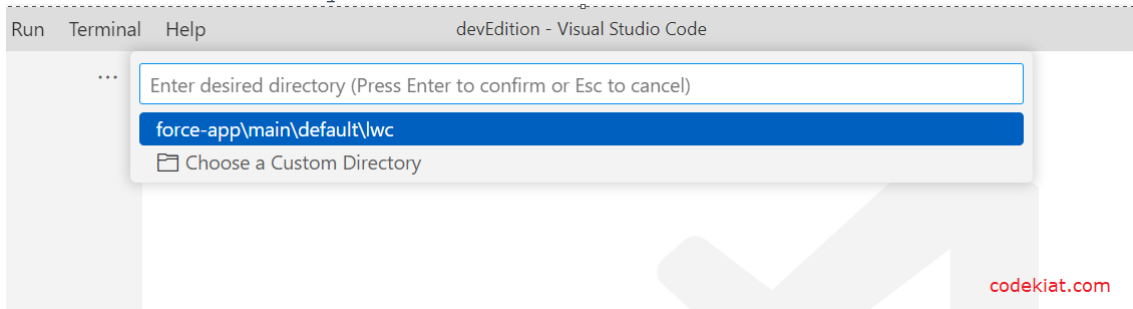
1. In the VS Code, press CTRL + SHIFT + P, type sfdx: create lightning in the search bar, and select SFDX: Create Lightning Web Component



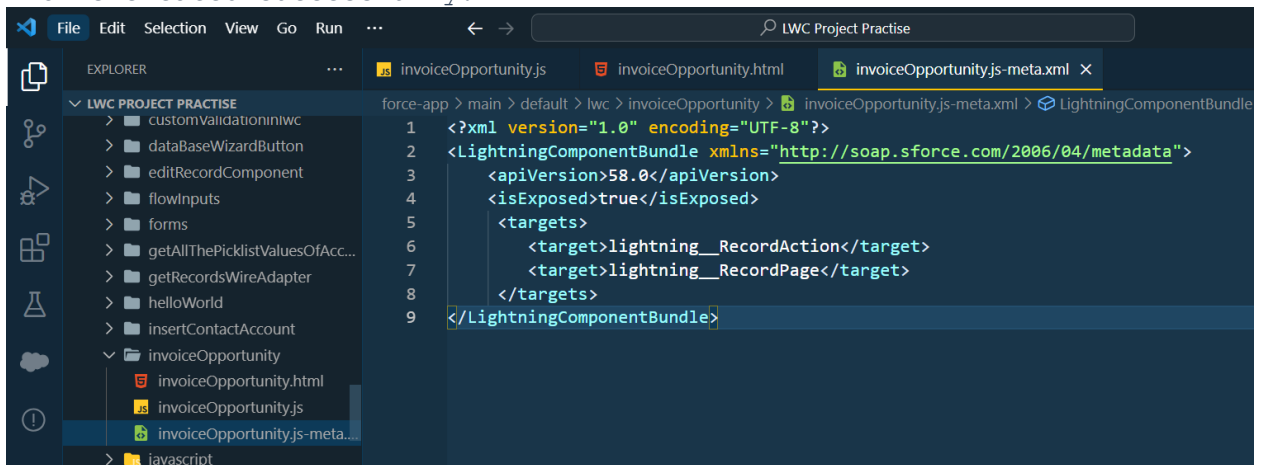
2. Give the name "InvoiceOpportunity" and press Enter.



3. Choose the directory.



4. LWC is created successfully.

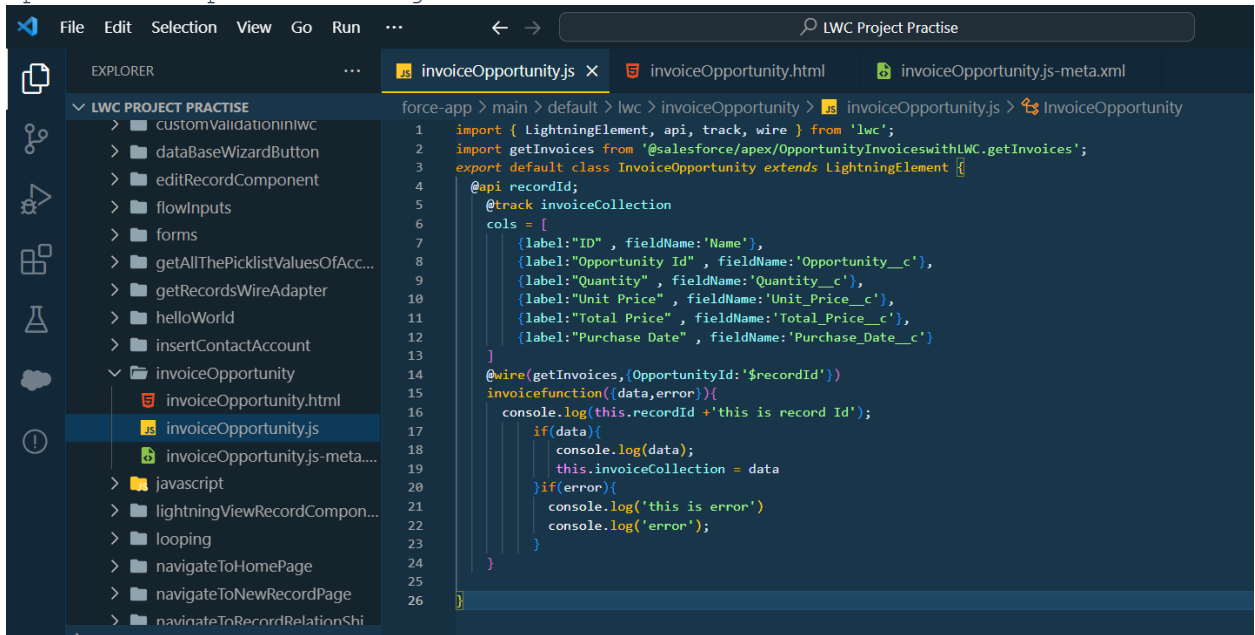


5. Copy and paste the below-mentioned code in the InvoiceOpportunity.js-meta.xml and update the apiVersion tag with the latest API version.

```
<?xml version="1.0" encoding="UTF-8"?>
<LightningComponentBundle xmlns="http://soap.sforce.com/2006/04/metadata">
  <apiVersion>58.0</apiVersion>
  <isExposed>true</isExposed>
  <targets>
    <target>lightning__RecordAction</target>
    <target>lightning__RecordPage</target>
  </targets>
</LightningComponentBundle>
```

#### JS File :

1. Copy and paste the below-mentioned code in the InvoiceOpportunity.js and update the apiVersion tag with the latest API version.



#### JS File Code :

```
import { LightningElement, api, track, wire } from 'lwc';
import getInvoices from
 '@salesforce/apex/OpportunityInvoiceswithLWC.getInvoices';
export default class InvoiceOpportunity extends LightningElement {
  @api recordId;
  @track invoiceCollection
  cols = [
    {label:"ID" , fieldName:'Name'},
    {label:"Opportunity Id" , fieldName:'Opportunity__c'},
    {label:"Quantity" , fieldName:'Quantity__c'},
    {label:"Unit Price" , fieldName:'Unit_Price__c'},
    {label:"Total Price" , fieldName:'Total_Price__c'},
    {label:"Purchase Date" , fieldName:'Purchase_Date__c'}
  ]
  @wire(getInvoices,{OpportunityId:'$recordId'})
  invoicefunction({data,error}){
    console.log(this.recordId +'this is record Id');
    if(data){
      console.log(data);
      this.invoiceCollection = data
    }
  }
}
```

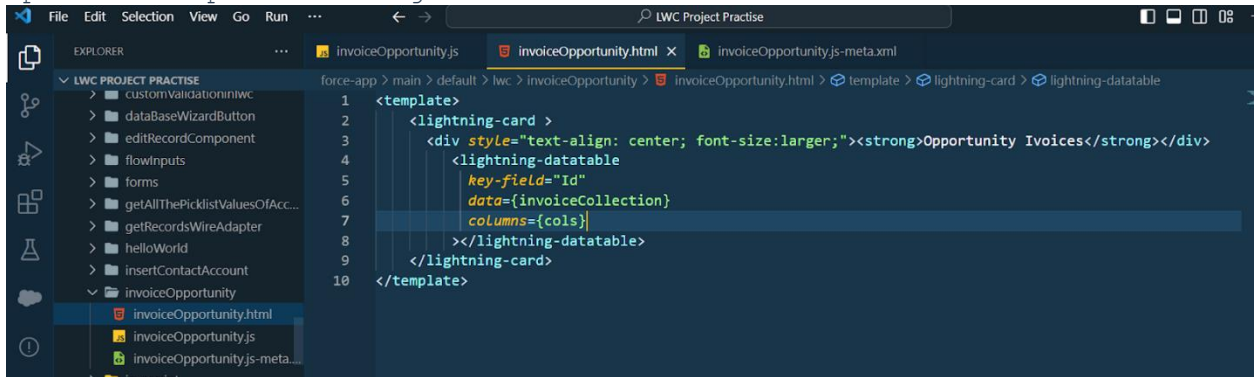
```

    }if(error){
        console.log('this is error')
        console.log('error');
    }
}
}

```

#### HTML File :

1. Copy and paste the below-mentioned code in the InvoiceOpportunity.html and update the apiVersion tag with the latest API version.



#### HTML File Code:

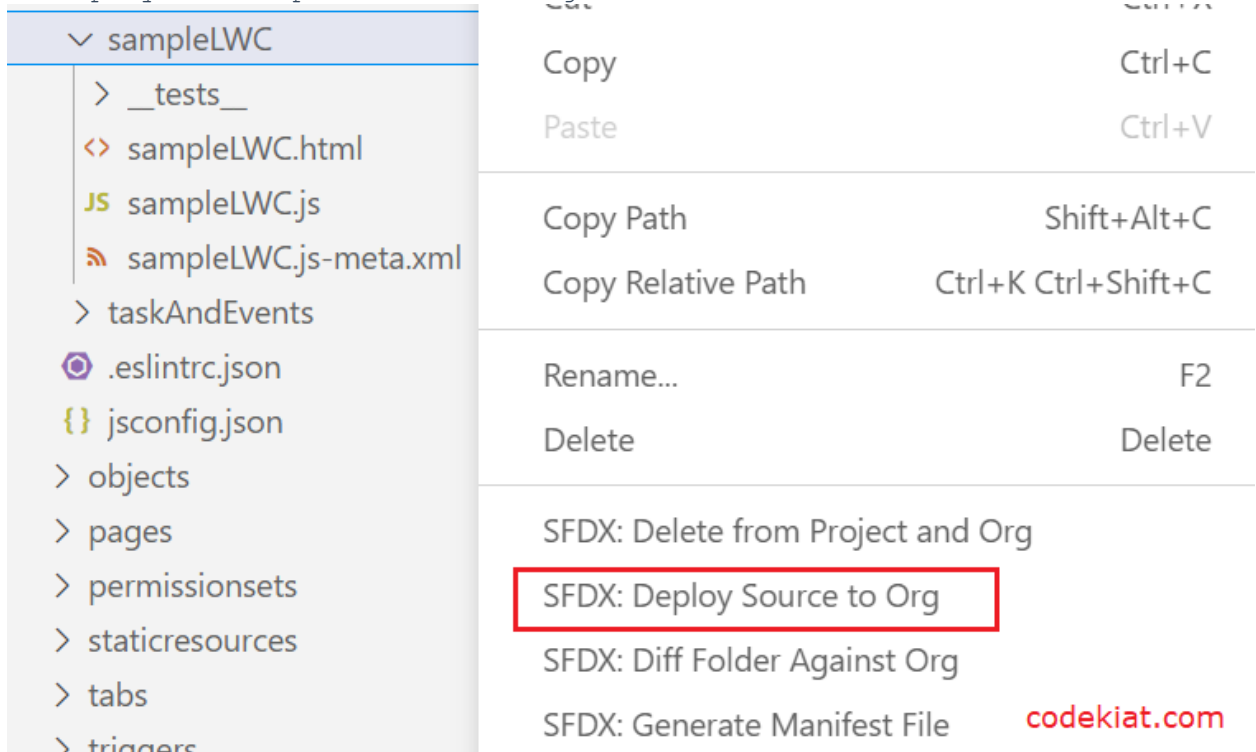
```

<template>
    <lightning-card >
        <div style="text-align: center; font-size: larger;"><strong>Opportunity
Ivoices</strong></div>
        <lightning-datatable
            key-field="Id"
            data={invoiceCollection}
            columns={cols}
        ></lightning-datatable>
    </lightning-card>
</template>

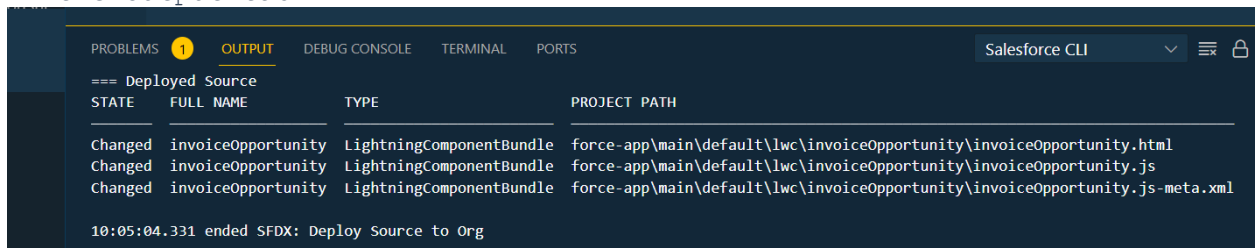
```

#### Deploy Component:

1. Right-click on the component folder, and select SFDX: Deploy Source to Org to deploy the component to the org.

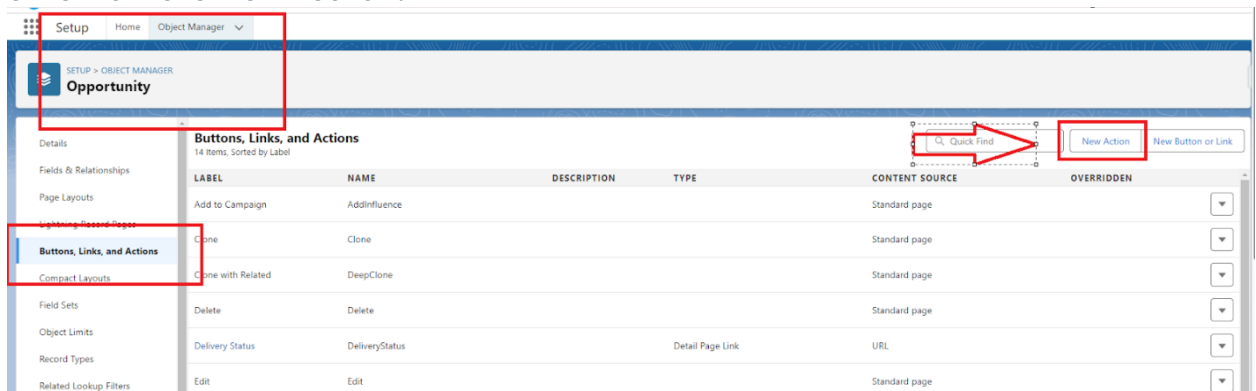


2. Once the deployment is complete, you will see the below-highlighted message in the output tab



## Create Button To Add On Opportunity

1. To add the newly created component to the view, Go to Salesforce Setup
2. Click on Object Manager
3. Search Opportunity and Click on it .
4. click on Button Links and Action.
5. click on the New Action.



6. Select Action type as Lightning Web Component
7. Select the InvoiceOpportunity component

- a. Label :- Invoices
  - b. Name :- Invoices
8. As given on below image

9. Click on Save and your action Button is Ready.

## Add InvoiceOpportunity Into Opportunity Record Page

1. On Opportunity Object Manager Click on Page layout.
2. Click on OpportunityLayout.

PAGE LAYOUT NAME	CREATED BY	MODIFIED BY
Opportunity (Marketing) Layout	Mohammed Sameer, 22/11/2023, 2:19 pm	Mohammed Sameer, 28/11/2023, 9:45 am
Opportunity (Sales) Layout	Mohammed Sameer, 22/11/2023, 2:19 pm	Mohammed Sameer, 28/11/2023, 9:45 am
Opportunity (Support) Layout	Mohammed Sameer, 22/11/2023, 2:19 pm	Mohammed Sameer, 28/11/2023, 9:45 am
Opportunity Layout	Mohammed Sameer, 22/11/2023, 2:19 pm	Mohammed Sameer, 01/12/2023, 10:57 am

- 3.
4. Click on Mobile And Lightning Action as show on below Image

