```
Program - 8
Build a simple web page using PWA by adding a Service Worker
Step 1:
Install the VSCode editor and create a folder:
create folders:
1) js
create start.js inside the js folder:
if ('serviceWorker' in navigator) {
     navigator.serviceWorker
     .register("/sw.js")
     .then((reg)=>console.log("registered",reg))
     .catch((err)=>console.log("err",err));
 else {
     console.log('No service worker support in this browser');
create a manifest ison add icon to the icons folder.
"name": "Program_8",
'short name": "Program 8",
'start url": "/my.html",
'display": "fullscreen",
'background color": "#ffff00",
"description": "A simple applicationfor manifestation",
orientation": "portrait-primary",
'theme color":"#2196F3",
"icons": [
 src": "/icons/rvce logo (1).png",
'sizes": "108x108<del>"</del>,
'type": "image/png"
create a file myfirst.html
<!DOCTYPE html>
<html lang="en">
```

```
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
k rel="manifest" href="manifest.json">
<title>program 8</title>
</head>
<body>
<script src="/js/start.js"></script>
Display of images: Image 1 - > <img src="img/bathroomprod.jpg"
width="100" height="100">
Image 2 - > <img src="img/camera.jpg" width="100"</p>
height="100">
Image 3 - > <img src="img/cosmetics.jpg" width="100"
height="100">
Image 4 - > <img src="img/headphone.jpeg" width="100"</p>
height="100">
</body>
</html>
Create sw.js ----> ServiceWorker
var mycache = "mycache";
var assests = [
     "/",
     "/my.html",
     "/img/bathroomprod.jpg",
     "/img/camera.jpg",
     "/img/headphone.jpeg",
     "/img/cosmetics.jpg",
     "/js/start.js",
     "/sw.js",
     "/manifest.json",
self.addEventListener('install', _event => {
     console.log('inside the install', event);
     caches.open(mycache)
```

```
.then(cache => {
           cache.addAll(assests);
     });
self.addEventListener('activate', event =>
     console.log('inside the activate', event);
});
self.addEventListener('fetch', async (event) => {
     event.respondWith(
           caches.match(event.request)
                 .then(respevt => {
                      return respevt || fetch(event.request);
           })
     console.log('inside the fetched', event);
create img folder and files like,
"/img/bathroomprod.jpg",
     "/img/camera.jpg",
     "/img/headphone.jpeg",
     "/img/cosmetics.jpg",
```

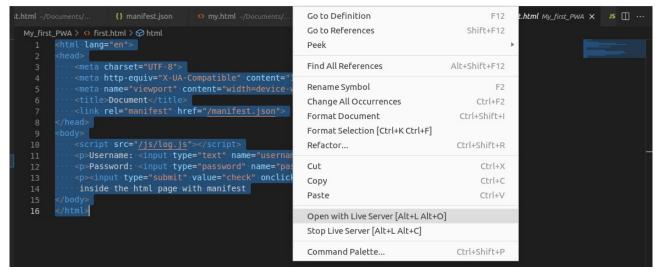
Directory structure:

```
✓ swProgram8
✓ icons
☑ rvce_logo (1).png
✓ img
☑ bathroomprod.jpg
☑ camera.jpg
☑ cosmetics.jpg
☑ headphone.jpeg
✓ js
Js start.js
{} manifest.json
✓ my.html
Js sw.js
```

Install the Live Server

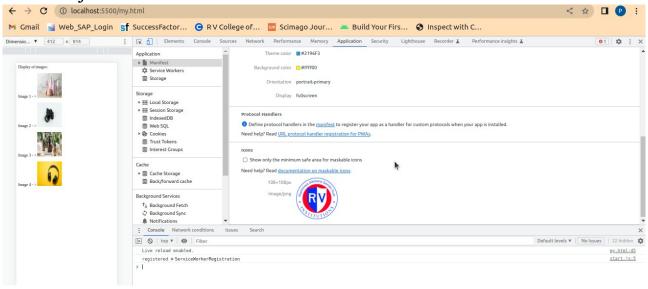


run file on server

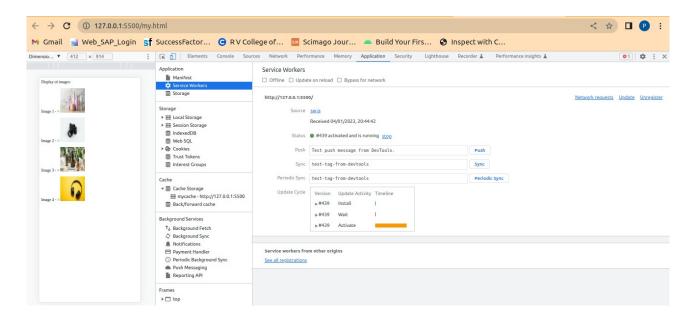


OUPUT:

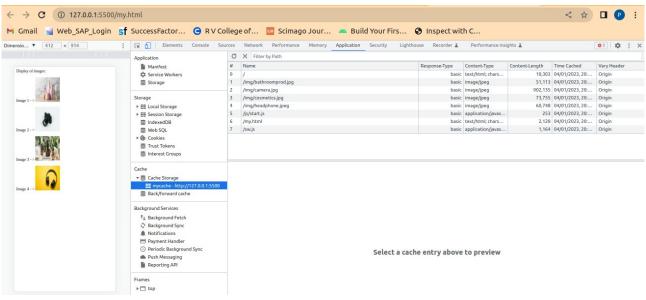
Manifest.json

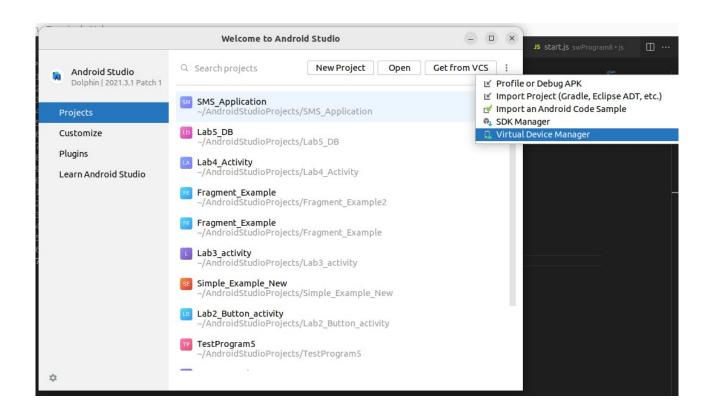


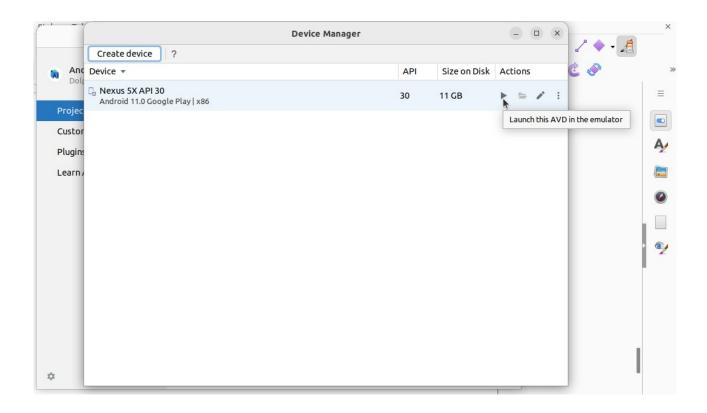
Service Worker running:



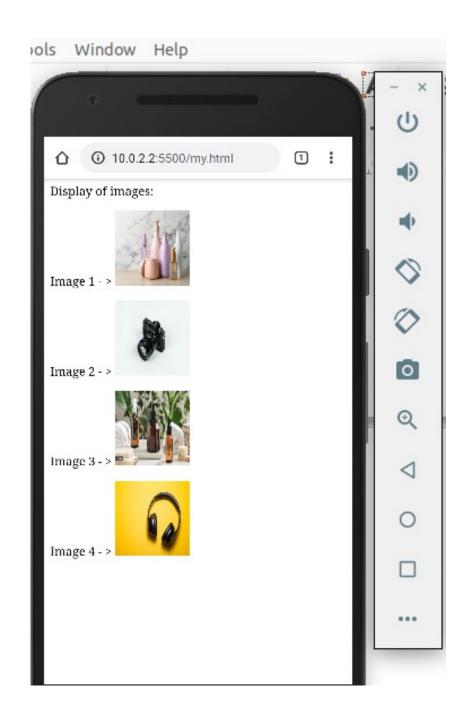
Caches files on chrome browser:



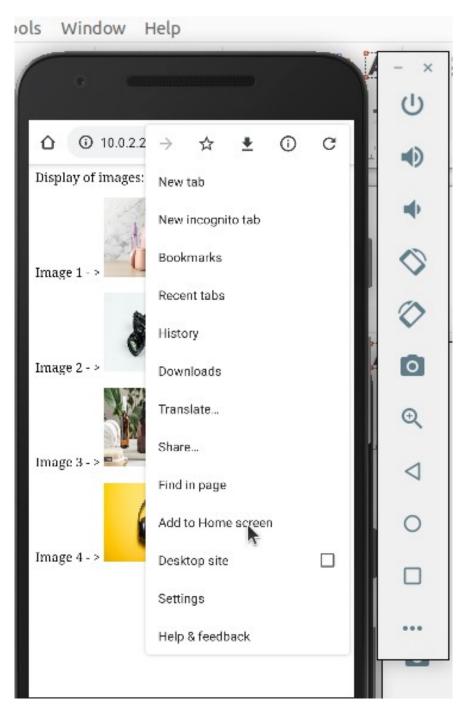




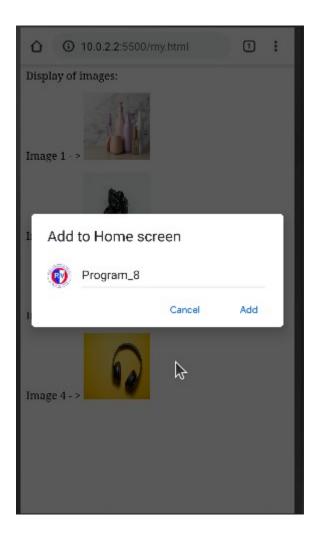
load the page on phone:



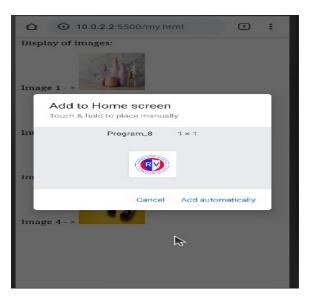
Add to home screen:



Next screen:

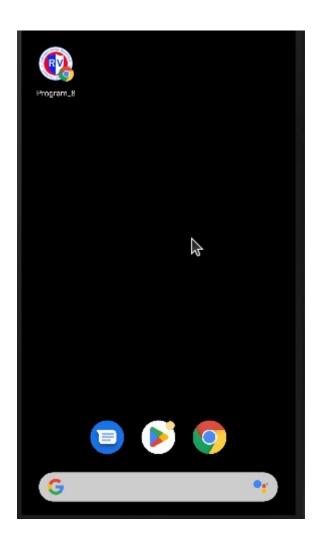


Click on add:



click on add automatically – come out of the browser, there will be icon saved on the screen. Here manifest file icon and short_name has been

added as a icon and name to the app like. So when you click on the app like icon it will lead to app like view for the website without any installation.



Check with the mobile network offline and online for both the images and website to be loaded.