Program 7:

Build a Simple Web page usingnPWA by adding a Service Worker

**Step 1:**

* VS code software is using to run PWA programs.
* Once program is working, can run the code in emulator also through Android studio through local IP.

create a folder name called **js**  folder -----> with in js folder create two files named as

1. start.js ( which is used to start the service worker )

2. sw.js (Service worker to register / Installing and Activation)

note: <https://web.dev/articles/service-worker-lifecycle> (service worker lifecycle methods are available in the given link)

**start.js**

if ('serviceWorker' in navigator) {

navigator.serviceWorker

.register("/js/sw.js")

.then((reg)=>console.log("registered",reg))

.catch((err)=>console.log("err",err));

} else {

console.log('No service worker support in this browser');

}

**sw.js**

// method that runs when service worker is installed first time

self.addEventListener('install', event => {

console.log('service worker installing');

// loading static html into cache first

self.skipWaiting();

})

// method that runs when the service worker is activated

self.addEventListener('activate', event => {

console.log('service worker activating...')

})

// method that will run when the app makes fetch calls

self.addEventListener('fetch', event => {

console.log('fetching', event.request.url);

});

**Step 2:**

create another **two** files (outside js folder) named as

**1. manifest.json**

{

"name": "my\_first\_manifest",

"short\_name": "first\_manifest",

"start\_url": "/index.html",

"display": "fullscreen",

"background\_color": "#ffff00",

"description": "A simple applicationfor manifestation",

"orientation": "portrait-primary",

"theme\_color":"#2196F3",

"icons": [

{

"src": "/icons/rvce\_logo.png",

"sizes": "432x432",

"type": "image/png"

},

{

"src": "/icons/rvce\_logo(1).png",

"sizes": "108x108",

"type": "image/png"

},

{

"src": "/icons/rvce\_logo(2).png",

"sizes": "216x216",

"type": "image/png"

}

]

}

**2. index.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">

<title>prog 7</title>

<link rel="manifest" href="./Manifest.json">

</head>

<body>

<script src="/js/start.js"></script>

<p>Username: <input type="text" name="username" id="username"></p>

<p>Password: <input type="password" name="password" id="password"></p>

<p><input type="submit" value="check" onclick="verify()"></p>

inside the html page with manifest

</body>

</html>