

Program-8: Build a simple web page using PWA by adding a service Worker.

1. Check nodejs and npm are there or not in ubuntu.
 - whereis nodejs
 - whereis npm
2. if nodejs and npm are not there in ubuntu first install nodejs and npm.
 - sudo apt install nodejs
 - sudo apt install npm
3. Then install npm in vs code
 - npm install
4. Then start npm
 - npm start
5. create manifest file:-
 - public->right click->new file->manifest.json
6. create sw.js file:-
 - public->right click->new file->sw.js
7. ctrl+shift+i-open developer option

index.html:-

```
<head>
  <link rel="manifest" href="manifest.json">
</head>
<body>
  <script>
    if('serviceWorker' in navigator)
    {
      navigator.serviceWorker.register('sw.js')
      .then((reg) => console.log('ServiceWorker is register',reg))
      .catch((err) => console.log('ServiceWorker is not register',err))
    }
  </script>
</body>
```

sw.js:-

```
self.addEventListener('install',event=>
console.log('ServiceWorker is installed',event)
);

self.addEventListener('activate',event=>
console.log('ServiceWorker is Activated',event)
);

self.addEventListener('fetch',event=>
console.log('ServiceWorker is fetch',event)
);
```

manifest.json:-

```
{
  "name": "Login in PWA",
  "short_name": "login",
  "dir": "ltr",
  "display": "fullscreen",
  "orientation": "portrait-primary",
  "scope": ".",
  "start_url": "index.html",
  "id": "index.html",
  "background_color": "#e2e2e2",
  "theme_color": "#e2e2e2",
  "description": "The is Simple Program",
  "icons":
  [
    {
      "src": "/images/icons/icon-72x72.png",
      "type": "image/png",
      "sizes": "72x72"
    },
    {
      "src": "/images/icons/icon-128x128.png",
      "type": "image/png",
      "sizes": "128x128"
    }
  ]
}
```

output:-



