Lightning Message Channel

- 1)Create a message channel folder in force.app/main/default
- 2)Create file in message channel folder
- 3)Give message channel file name like

Sample_MessageChannel.messageChannel-meta.xml

Pubsub Model example

1)Create one Lwc component with the name pubsub

2) copy all content in this Pubsub.js

// A basic pub-sub mechanism for sibling component communication

```
const events = {};
```

```
const samePageRef = (pageRef1, pageRef2) => {
    const obj1 = pageRef1.attributes;
    const obj2 = pageRef2.attributes;
    return Object.keys(obj1)
        .concat(Object.keys(obj2))
        .every(key => {
            return obj1[key] === obj2[key];
        });
};
/**
 * Registers a callback for an event
 * @param {string} eventName - Name of the event to listen for.
 * @param {function} callback - Function to invoke when said event is
fired.
* @param {object} thisArg - The value to be passed as the this parameter
to the callback function is bound.
```

```
*/
const registerListener = (eventName, callback, thisArg) => {
    \ensuremath{//} Checking that the listener has a pageRef property. We rely on that
property for filtering purpose in fireEvent()
   if (!thisArg.pageRef) {
       throw new Error (
            'pubsub listeners need a "@wire(CurrentPageReference) pageRef"
property'
        );
    }
    if (!events[eventName]) {
        events[eventName] = [];
    }
   const duplicate = events[eventName].find(listener => {
        return listener.callback === callback && listener.thisArg ===
thisArg;
    });
```

```
if (!duplicate) {
        events[eventName].push({ callback, thisArg });
   }
};
/**
* Unregisters a callback for an event
* @param {string} eventName - Name of the event to unregister from.
* @param {function} callback - Function to unregister.
* @param {object} thisArg - The value to be passed as the this parameter
to the callback function is bound.
*/
const unregisterListener = (eventName, callback, thisArg) => {
   if (events[eventName]) {
        events[eventName] = events[eventName].filter(
            listener =>
                listener.callback !== callback || listener.thisArg !==
thisArg
```

```
);
   }
};
/**
 * Unregisters all event listeners bound to an object.
* @param {object} thisArg - All the callbacks bound to this object will
be removed.
 */
const unregisterAllListeners = thisArg => {
    Object.keys(events).forEach(eventName => {
        events[eventName] = events[eventName].filter(
            listener => listener.thisArg !== thisArg
        );
    });
} ;
```

```
/**
* Fires an event to listeners.
* @param {object} pageRef - Reference of the page that represents the
event scope.
* @param {string} eventName - Name of the event to fire.
* @param {*} payload - Payload of the event to fire.
*/
const fireEvent = (pageRef, eventName, payload) => {
   if (events[eventName]) {
        const listeners = events[eventName];
        listeners.forEach(listener => {
            if (samePageRef(pageRef, listener.thisArg.pageRef)) {
                try {
                    listener.callback.call(listener.thisArg, payload);
                } catch (error) {
                    // fail silently
```

```
}
       }
     });
  }
} ;
export {
  registerListener,
  unregisterListener,
  unregisterAllListeners,
  fireEvent
};
.....
```

Next step once u created this file pub sub include Two components program and use this file

Pubcom

```
<template>
     dightning-card title="Publish Component">
```

```
dightning-input class="slds-p-around medium" label="Enter Text to
Send: " value={strText}
           onchange={changeName}></lightning-input>
       <br/>
       dightning-button class="slds-p-around medium" label="Publish"
variant="brand"
           onclick={publishEvent}></lightning-button>
   </template>
import { LightningElement, wire } from 'lwc';
import { fireEvent } from 'c/pubsub';
import { CurrentPageReference } from 'lightning/navigation';
export default class PublishCmp extends LightningElement {
   strText = '';
   @wire(CurrentPageReference) objpageReference;
   changeName (event) {
       this.strText = event.target.value;
    }
   // This method will fire the event and pass strText as a payload.
   publishEvent() {
       fireEvent(this.objpageReference, 'sendNameEvent', this.strText);
   }
}
```

Subcomp

<template>

```
dightning-card title="Subscribe Component">
       Received Text: {strCapturedText}
       </template>
import { LightningElement, wire } from 'lwc';
import { CurrentPageReference } from 'lightning/navigation';
import { registerListener, unregisterAllListeners } from 'c/pubsub';
export default class SubscribeCmp extends LightningElement {
   strCapturedText = '';
   @wire (CurrentPageReference) pageRef;
   // This method will run once the component is rendered on DOM and will
add the listener.
   connectedCallback() {
       registerListener('sendNameEvent', this.setCaptureText, this);
   }
   // This method will run once the component is removed from DOM.
   disconnectedCallback() {
       unregisterAllListeners(this);
   }
   // This method will update the value once event is captured.
   setCaptureText (objPayload) {
       this.strCapturedText = objPayload;
   }
```