Experiment No.9

```
//Async await
function doAnything(data) {
      return new Promise(
      (resolve,reject) => {
             setTimeout(()=>{
                    if(typeof data=='number') {
                           resolve(data*data);
                    } else {
                           reject("An error occurred");
                    }
             },1000);
      });
}
async function chainStuff() {
      let a = await doAnything(2);
      console.log(" in "+a);
      let b = await doAnything(a);
      console.log(" in "+b);
      let c = await doAnything(b);
      console.log(" in "+c);
      return c;
chainStuff().then(
      result=>{
             console.log("out r"+result);
}).catch(error=>{
      console.log("out e"+error);
});
Output:
[student@localhost Rushi]$ node async-await.js
in 4
in 16
in 256
out r256
```

```
//Promise
function doAnything(data) {
      return new Promise(
      (resolve,reject) => {
             setTimeout(()=>{
                   if(typeof data=='number') {
                          resolve(data*data);
                   } else {
                          reject("An error occurred");
                   }
             },1000);
      });
}
doAnything(2).then(a=>{
      console.log(a);
      return doAnything(a);
}).then(b=>{
      console.log(b);
      return doAnything(b);
}).then(c=>{
      console.log(c);
}).catch(error=>{
      console.log(error);
});
Output:
[student@localhost Rushi]$ node promise.js
4
16
256
```