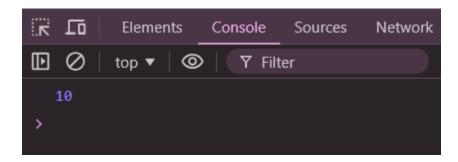
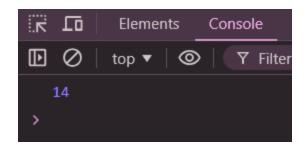
JSON and variable length arguments/spread syntax TASK 1



```
<html>
  <body>
  <script>
    function sum(...args) {
    let total = 0;
    for (let num of args) {
        total += num;
    }
    return total;
    }
    const arr = [1,6,7];
    console.log(sum(...arr));
  </script>
  </body>
</html>
```



TASK 3

```
<html>
  <body>
  <script>
    let student = {
        name : "ram",
        age : 20,
        dept: "CSE",
    };
```

```
let school = {
    name : "jan",
    age : 50,
    sec : "A",
    };
    let obj = {...student,...school};
    console.log(JSON.stringify(obj));
    </script>
    </body>
</html>
```





Promise, Promises chaining:

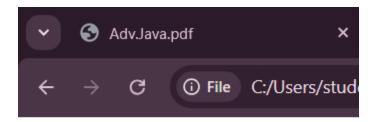
TASK 1

```
<html>
 <body>
  <script>
    function greetdelay(sec){
      return new Promise((resolve)=>{
        setTimeout(() => {
          resolve("this is the greeting seconds" + sec);
        },sec*1000);
      });
    }
    greetdelay(4).then((greeting)=>console.log(greeting));
  </script>
 </body>
</html>
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                           Console
                                       Sources
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                                Y Filter
                      o
             top ▼
     this is the greeting seconds4
```

```
});
    }
    randomPromise()
    .then((message)=>console.log(message))
    .catch((error)=>console.log(error));
  </script>
 </body>
</html>
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              Elements
                          Console
                                      Sources
      0
             top ▼
                      ©
                              ▼ Filter
     failed in 0.18371620830481672
```

```
<html>
 <body>
  <script>
    function reachHome(name,timetoreach,isSuccessful){
      return new Promise((resolve,reject)=>
    setTimeout(()=>{
      if(isSuccessful){
        resolve(`${name} has reached home`);
      }
      else{
        reject(`${name} could not reached home`);
    }),timetoreach)}
    let f1 = reachHome('ram',1000,true);
    let f2 = reachHome('jan',2000,true);
    let f3 = reachHome('feb',3000,false);
    Promise.allSettled([f1,f2,f3]).then
    ((Response)=>{
      Response.forEach((res)=>{
        document.writeln(res.status =='fulfilled'?res.value:res.reason);
        document.writeln("<br>");
      })
    }
  ).catch((error)=>{document.writeln(error.message)}).finally("party over");
```

```
</script>
</body>
</html>
```



ram has reached home jan has reached home feb could not reached home