

## ASSIGNMENT (20-7-2020)

### Solutions-----

#### Question-1

```
<script type="text/javascript">

    var inputArray = [];

    var size = 5; //Maximum Array size


    for(var i=0; i<size; i++) {

        inputArray[i] = Number(prompt('Enter Element ' + (i+1)));

    }

    console.log(inputArray);


    let odd = inputArray.filter(i=>i%2!=0);

    console.log(odd);


    let oddCubes = inputArray.filter(i=>i%2==0).map(j=>j**3);

    console.log(oddCubes);

</script>
```

#### Question-2

```
<script type="text/javascript">


    class User {

        constructor(name, age, mail) {

            this.name = name;

            this.age = age;

            this.mail = mail;

        }

    }

</script>
```

```
login() {  
    console.log(`${this.name} has logged in`);  
    return this;  
}  
  
logout() {  
    console.log(`${this.name} has logged out`);  
}  
}  
  
class Moderator extends User{  
    constructor(name, age, mail) {  
        super(name, age, mail);  
        this.aCoins = 0;  
    }  
  
    addCoins() {  
        this.aCoins++;  
        console.log(`${this.name} has added ${this.aCoins} coins`);  
        return this;  
    }  
  
    removeCoins() {  
        console.log(`${this.name} has removed ${this.aCoins} coins`);  
        return this;  
    }  
}
```

```

class Admin extends Moderator {
    constructor(name, age, mail, course) {
        super(name, age, mail);
        this.course = [];
    }

    addCourse(users,courses) {
        users.course.push(courses);
        console.log(users);
    }

    removeCourse(user) {
        total = total.filter(u=> {
            return u.course !== user.course;
        })
    }
}

let user1 = new User("Jack", 22 , "jack@gmail.com");
user1.login();

let user2 = new User("Jane", 22 , "jane@gmail.com");
user2.logout();

let user3 = new Moderator("John", 22 , "john@gmail.com");
user3.addCoins();
user3.addCoins();
user3.removeCoins();

```

```
let user4 = new Admin("Jill", 22 , "jill@gmail.com");
```

```
let user5 = new Admin("Jamie", 22 , "jamie@gmail.com");  
user5.addCourse(user4,'JavaScript');
```

```
let total = [user1,user2,user3,user4,user5];
```

```
</script>
```

### Question – 3

```
<script type="text/javascript">
```

```
    //fetch
```

```
    fetch('https://jsonplaceholder.typicode.com/todos').then(response=>response.json()).then(  
data=>console.log(data));
```

```
    //aync
```

```
    async function myFunc() {
```

```
        const response = await fetch('https://jsonplaceholder.typicode.com/todos');
```

```
        const data = await response.json();
```

```
        console.log(data);
```

```
    }
```

```
    myFunc();
```

```
    //promise
```

```
    const userData = new Promise((resolve,reject)=>{
```

```
        const error= false;
```

```
        if(error){
```

```
            reject("Error occured");
```

```
    }  
    else {  
        resolve({  
            "userId": 1,  
            "id": 1,  
            "title": "delectus aut autem",  
            "completed": false  
        })  
    }  
});  
  
userData.then(data=>console.log(data)).catch(error=>console.log(error));  
</script>
```