Assignment 6

Q1.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Q1</title>

</head>

<body>

<script defer src = "Q1.js">

</script>

<center>

<mark>

<b>

To see the Output, press F12 on the keyboard.

</b>

</mark>

</center>

</body>

</html>

Q1.js

let num = parseInt(prompt("Plaese enter a number"))

if(num >= 0)

{

console.log(`Entered number is ${num}`);

let numArr = [];

for(let i = 0; i <= num; i++)

{

numArr.push(i);

}

console.log(`Array of numbers : ${numArr}`);

let odd = numArr.filter(element => (element % 2) != 0);

console.log(`Odd Numbers : ${odd}`);

let oddCube = odd.map(element => element \*\* 3);

console.log(`Cube of Odd Numbers : ${oddCube}`);

}

else

{

console.log("Please enter a positive number");

}

Q2.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Q2</title>

</head>

<body>

<script defer src = "Q2.js">

</script>

<center>

<mark>

<b>

To see the Output, press F12 on the keyboard.

</b>

</mark>

</center>

</body>

</html>

Q2.js

class User

{

constructor(name, age, email)

{

this.name = name;

this.age = age;

this.email = email;

this.coins = 0;

this.courses = [];

}

logIn()

{

console.log(`${this.name} have logged in.`);

}

logOut()

{

console.log(`${this.name} have logged out.`);

}

}

class Moderator extends User

{

constructor(name, age, email)

{

super(name, age, email);

}

addCoins(user)

{

let coin = parseInt(prompt("Enter the coins to be added."));

if(coin > 0)

{

user.coins += coin;

}

console.log(user);

return user;

}

removeCoins(user)

{

let coin = parseInt(prompt("Enter the coins to be removed."));

if(user.coins > 0)

{

user.coins -= coin;

if(user.coins < 0)

{

user.coins = 0;

}

}

console.log(user);

return user;

}

}

class Admin extends Moderator

{

constructor(name, age, email)

{

super(name, age, email);

}

addCourses(user, course)

{

user.courses.push(course);

console.log(user);

return user;

}

removeCourse(user, course)

{

user.courses = user.courses.filter(element => element != course);

console.log(user);

return user;

}

}

let user1 = new User("Vikrant", 20, "vikrantshah2000@gmail.com");

user1.logIn();

user1.logOut();

let moderator1 = new Moderator("Dilip", 22, "dilip@gmail.com");

moderator1.logIn();

user1 = moderator1.addCoins(user1);

user1 = moderator1.removeCoins(user1);

moderator1.logOut();

let admin1 = new Admin("Milip", 25, "milip@gmail.com");

admin1.logIn();

user1 = admin1.addCourses(user1, "Python");

user1 = admin1.addCourses(user1, "JavaScript");

user1 = admin1.removeCourse(user1, "Python");

admin1.logOut();

Q3.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Q3</title>

</head>

<body>

<script defer src = "Q3.js">

</script>

<center>

<mark>

<b>

To see the Output, press F12 on the keyboard.

</b>

</mark>

</center>

</body>

</html>

Q3.js

let jsonObject = [];

let url = "https://jsonplaceholder.typicode.com/todos";

// fetch(url)

// .then(response => response.json())

// .then(data => console.log(data))

// .catch(error => console.log(error));

async function completedToDos()

{

const response = await fetch(url);

let data = await response.json();

console.log(data);

for(let i = 0; i < 200; i++)

{

jsonObject = JSON.stringify(data[i]);

if(jsonObject.includes("true"))

{

console.log(jsonObject);

}

}

}

completedToDos();

// let str = jsonOject.forEach(element => {

// JSON.stringify(element);

// });

// let data = JSON.stringify(jsonObject);

// console.log(data)

// console.log(str);