**ES6 Assignment 02**

Q1.

class fib{

next(n: number)

{

let a = n \* (1 + Math.sqrt(5)) / 2.0;

return Math.round(a);

}

}

let p =new fib();

console.log(p.next(5));

Q2

let numbers = [8,9,15,300,370,371];

class Armstrong {

getNextArmstrong(numbers){

for(let number in numbers){

let numberOfDigits = i.toString().length;

let sum = 0;

let temp = i;

while (temp > 0) {

let remainder = temp % 10;

sum += remainder \*\* numberOfDigits;

temp = temp / 10;

if (sum == number) {

console.log(`Next Armstrong Number is : ${number}`)

}

}

}

}

}

let a = new Armstrong();

1. getNextArmstrong(numbers);

Q3.

class Armstrong {

getNextArmstrong(lowNumber:number,highNumber:number){

for(let i = lowNumber; i <= highNumber; i++){

let numberOfDigits = i.toString().length;

let sum = 0;

let temp = i;

while (temp > 0) {

let remainder = temp % 10;

sum += remainder \*\* numberOfDigits;

temp = parseInt(temp/ 10);

if(i<=1000){

if (sum == i) {

console.log(`Next Armstrong Number is : ${i}`)

}

}else{

console.log(`Error: ${i} is beyound 1000.`)

}

}

}

}

}

let a = new Armstrong();

1. getNextArmstrong(1,10000);

Q4.

let chatroom1 = new Map()

chatroom1.set('Adarsh', {

msg1: "Hello, I am Adarsh",

msg2: "I am from India",

msg3: "I am Developer",

msg4: " Lets Develop Something. ",

})

chatroom1.set('Hilary', {

msg1: "Hello, I am Hilary",

msg2: "I am from LA",

msg3: "I am Developer",

msg4: " Lets Develop. ",

})

chatroom1.set('Jack', {

msg1: "Hello, I am Jack",

msg2: "I am from LA",

msg3: "I am Developer",

msg4: " Lets Develop. ",

})

let chatroom2 = new Map()

chatroom2.set('Martin', {

msg1: "Hello, I am Martin",

msg2: "I am from LA",

msgj3: "I am Developer",

msg4: " Lets Develop. ",

})

chatroom2.set('Somi', {

msg1: "Hello, I am Somi",

msg2: "I am from LA",

msg3: "I am Developer",

msg4: " Lets Develop. ",

})

chatroom2.set('Jessie', {

msg1: "Hello, I am Jessie",

msg2: "I am from LA",

msg3: "I am Developer",

msg4: " Lets Develop. ",

})

console.log("Total Users in Chatroom1 : " +chatroom1.size)

chatroom1.forEach( (value, key, map) => {

console.log(`${key}`);

console.log(chatroom1.get(`${key}`));

});

console.log("Total Users in Chatroom2 : " +chatroom2.size)

chatroom2.forEach( (value, key, map) => {

console.log(`${key}`);

console.log(chatroom2.get(`${key}`));

});

Output:

[LOG]: "Total Users in Chatroom1 : 3"

[LOG]: "Adarsh"

[LOG]: {

"msg1": "Hello, I am Adarsh",

"msg2": "I am from India",

"msg3": "I am Developer",

"msg4": " Lets Develop Something. "

}

[LOG]: "Hilary"

[LOG]: {

"msg1": "Hello, I am Hilary",

"msg2": "I am from LA",

"msg3": "I am Developer",

"msg4": " Lets Develop. "

}

[LOG]: "Jack"

[LOG]: {

"msg1": "Hello, I am Jack",

"msg2": "I am from LA",

"msg3": "I am Developer",

"msg4": " Lets Develop. "

}

[LOG]: "Total Users in Chatroom2 : 3"

[LOG]: "Martin"

[LOG]: {

"msg1": "Hello, I am Martin",

"msg2": "I am from LA",

"msgj3": "I am Developer",

"msg4": " Lets Develop. "

}

[LOG]: "Somi"

[LOG]: {

"msg1": "Hello, I am Somi",

"msg2": "I am from LA",

"msg3": "I am Developer",

"msg4": " Lets Develop. "

}

[LOG]: "Jessie"

[LOG]: {

"msg1": "Hello, I am Jessie",

"msg2": "I am from LA",

"msg3": "I am Developer",

"msg4": " Lets Develop. "

}