ES assignment – 2

Q1.

class fibo{

    \_a=0;

    \_b=1;

    result=0

    next=(k)=>{

        console.log(this.\_a+this.\_b);

        this.result=this.\_a+this.\_b;

        this.\_b=this.result;

        this.\_a=this.\_b;

        if(this.k>0){

            this.k--;

        }

    }

}

let d1=new fibo;

d1.next(10);

Q2. Iterators program that returns next Armstrong number ?

function getarmstrongnumber(num){

    var b = num;

    for(var i=10;i<=b;i++){

        var temp=i;

        var noOfDigits=i.toString().length;

        var sum=0;

        while(temp>0){

            var digit = temp%10;

            temp=parseInt(temp/10);

            sum+=digit \*\* noOfDigits;

        }

        if(sum == i){

            console.log(i);

        }

    }

}

getarmstrongnumber(120)

Q3.Generators:

function\* armstrong11(low) {

    while(true){

        if(low>1000){

            return{done:true,'value':low};

        }

        low++;

    do{

        var str = low.toString();

        var sum = 0;

        for(var i = 0;i<str.length;i++){

            sum = sum + Math.pow(parseInt(str[i]),str.length);

        }

        if(sum == low){

        low = sum;

        break;

    }

        else

            low++;

    }while(true);

    yield low;

}

}

var arr = armstrong11(10);

let temp = arr.next();

console.log(temp);

temp = arr.next();

console.log(temp);

temp = arr.next();

console.log(temp);

Q4.

Chatroom functionality?

**Ans.** let chatroom1 = new Map();

let chatroom2 = new Map();

let user1 = new Set(["hii"]);

let user2 = new Set(["hello"]);

let user3 = new Set(["hello world"]);

let user4 = new Set(["c2u1","Bilanshi nagin nighali"]);

let user5 = new Set(["c2u2","Abhi maja aayaga na bhidu"]);

let user6 = new Set(["c2u3","Kya gunda banega re tu"]);

chatroom1.set("user1 Raju",user1);

chatroom1.set("user2 Shyam",user2);

chatroom1.set("user3 Baburao",user3);

chatroom2.set("user1 Raju",user4);

chatroom2.set("user2 Farhan",user5);

chatroom2.set("user3 Rancho",user6);

function printusersofchat(chatroom){

//console.log("\nusers form chatroom :")

for(let key of chatroom.keys()){

console.log("\n",key);

}

}

function printchatsofchat(chatroom){

let chats = new Set();

for(let key of chatroom.values()){

// console.log("\n",key);

//chats.add(key);

key.forEach(chats.add,chats);

}

console.log("\n",chats);

}

console.log("\nUsers of chatroom 1 :");

printusersofchat(chatroom1);

console.log("\nUsers of chatroom 2 :");

printusersofchat(chatroom2);

console.log("\n Chats from chatroom 1 :");