Chapter 2.1

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated with medium confidence

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Chapter 2.2 Questions

/\*\*\*\*\*\*\*\*   Question -1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

for (*var* i=0;i<3;i++){

    setTimeout(*function* log(){

        console.log(i);

    },0.00001)

}

/\*\*\*\*\*\*\*\*   Question -1 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

*let* myName="Siva Lokam";

*function* printer(*addExclamation*){

*function* printName(){

*let* newName=myName;

        if (*addExclamation*){

            newName  = myName+"!";

         }

         console.log(`oldName = ${myName}`);

         console.log(`newName = ${newName}`);

    }

    return printName;

}

*const* printNameFn = printer(true);

printNameFn(myName)

myName="another Name"

printNameFn(myName)

*function* a(){

    // var x = 20;

    return *function*(){

        console.log(x);

    }

}

*var* x = 10;

*const* b = a();

b();

/\*\*\*\*\*\*\*\*   Question -2 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

*let* count = 0;

setTimeout(*function*() {

    count++;

    console.log(`In setTimeout ${count}`);

},1000);

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

for(*var* i=0;i<3; i++){

    setTimeout(*function*(){

        console.log(i);

    },1)

}

/\*\*\*\*\*\*\*\*\*  Question - 3 \*\*\*\*\*\*/

*function* a(){

    // var x = 15;

*let* fn;

    {

        // var x = 5;

        fn = *function* () {

            console.log(x);

        };

    }

    return fn;

}

*var* x=10;

*const* b = a();

b();

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Question -4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

*var* a = 100;

*function* abc(*x*) {

*var* a = 10;

    return *function* (*y*) {

        return a + *y*;

    }

}

a = 50;

*var* inner = abc(20);

*function* foo() {

*var* a = 30;

    console.log(inner(5));

}

foo();

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Question -5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

(*function* immediateA(*a*){

    return (*function* immediateB(*b*){

        console.log(*a*);

    })(1);

})(0);

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Question -6 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

*function* createIncrement() {

*let* count=5;

*function* increment(){

        count++;

    }

*let* message = `Count is ${count}`;

*function* log(){

        console.log(message);

        message = `Count is ${count}`;

        console.log(message);

    }

    return [increment,log]

}

*const* [increment,log] = createIncrement();

increment();

increment();

increment();

log();

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Question -7 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

*function* createUser(*initialName*){

*let* name = *initialName*;

    return {

        getName(){

            return name;

        },

        setName(*newName*){

            name=*newName*;

        }

    };

}

*let* p1 = createUser("Siva");

*let* p2 = createUser("Lokam");

console.log(p1);

p1.setName(null);

console.log(p1.getName());

Chapter 2.3 Lodash.memoize

Can’t use memorize on certain functions which has side effects ( for eg, printing the data, or sending an email etc.,)