1. What are microtasks? What is a microtask queue? What is their role in Promises and how are they different from callbacks?

Answer:

Microtask-> a function executed after a piece of code created it exists and JavaScript stack is empty. It is a sub queue inside a loop.

Microtask queue🡪executed multiple times per iteration in loop.

In callback queue🡪 gives a flow option to a function caller which is waiting in a queue.

Promises are in the microtask queue hence application waits for its execution.

1. Explain with examples how private, protected variables can be implemented in classes and how can they be used in subclasses?

Answer:

Private variable are accessible in current class only.

Protected variables are accessible in current class and subclass of the current class can have access of its field and methods.

**Private variables using #:-**

class ObjectCreater{

#myVar;

Constructor(name){

This.#myVar = 30;

}

returnMyVar(){

return this.#myVar;

}

#returnMessage(){

Return “Prajakta Tupe”

}

}

**Protected variable:**

class MyName {

\_name;

Constructor(name){

This.\_name=name;

}

Get name(){

Return this.\_name;

}

}

let myName= new MyName(“Prajakta”);