Assignment-3

Q1 & 2.Make a Rectangle class that stores a width and height.

Ans.

class Rectangle{

    constructor(width, height){

        this.width=width;

        this.height=height;

    }

    get area(){

        return this.calcarea();

    }

    calcarea(){

        return this.height\*this.width;

    }

}

const square=new Rectangle(10,10);

console.log(square.area);

Q3. Ans. The height value changed to 50 so the new answer is going to be 200.

Q4.Make a variable whose value is an object with firstName and lastName?

Ans. class Person {

    constructor(fname, lname) {

      this.firstName = fname;

      this.lastName = lname;

    }

  }

  const person = new Person('testFirstName', 'testLastName');

  person.lastName="cage"

  console.log(person.firstName)

  console.log(person.lastName)

Q5.Try reading the middlename property and try assigning it?

Ans.

class Person {

    constructor(fname, mname, lname) {

      this.firstName = fname;

      this.middleName = mname;

      this.lastName = lname;

    }

  }

  const person = new Person('testFirstName', 'testmiddle', 'testLastName');

  person.lastName="cage"

  console.log(person.firstName)

  console.log(person.middleName)

  console.log(person.lastName)

Q6.

Create a string containing and object with firstname and lastname?

class Person {

    constructor(fname, lname) {

      this.firstName = fname;

      this.lastName = lname;

    }

  }

//   const person = new Person('testFirstName', 'testmiddle', 'testLastName');

//   person.lastName="cage"

//   console.log(person.firstName)

//   console.log(person.middleName)

//   console.log(person.lastName)

var a='({"firstName":"creating", "lastName":"the newthing"})';

var str=eval(a);

console.log(str.firstName+""+str.lastName)

Q7.Do the same with JSON parse. You have to follow strict JSON rules in this case?

Ans.

class Person {

    constructor(fname, lname) {

      this.firstName = fname;

      this.lastName = lname;

    }

  }

//   const person = new Person('testFirstName', 'testmiddle', 'testLastName');

//   person.lastName="cage"

//   console.log(person.firstName)

//   console.log(person.middleName)

//   console.log(person.lastName)

var a='{"firstName":"creating", "lastName":"the newthing"}';

var str=JSON.parse(a);

console.log(str.firstName+""+str.lastName)

Q8.Write a js program to create object of person with fields as follows:-

Ans.

function person(fname,lname,age,skill,dateofbirth,address,married,profession){

    this.fname=fname;

    this.lname=lname;

    this.age=age;

    this.skill=skill;

    this.dateofbirth=dateofbirth;

    this.address=address;

    this.married=married;

    this.profession=profession;

}

var person1=new person("nikhil", "goud",22,['c'],"24/10/1997",{city:"hyberabad",pincode:"521185"},"false","sr analyst");

var person2=new person("harish", "chinna",21,['html'],"8/6/1997",{city:"ammeerpet",pincode:"500038"},"false","jr analyst");

print=function(){

    console.log(person1);

    console.log(person2);

}();

Q8.Modify the above program create 2 objects?

Ans.

function person(fname,lname,age,skill,dateofbirth,address,married,profession){

    this.fname=fname;

    this.lname=lname;

    this.age=age;

    this.skill=skill;

    this.dateofbirth=dateofbirth;

    this.address=address;

    this.married=married;

    this.profession=profession;

}

var person1=new person("nikhil", "goud",22,['c'],"24/10/1997",{city:"hyberabad",pincode:"521185"},"false","sr analyst");

var person2=new person("harish", "chinna",21,['html'],"8/6/1997",{city:"ammeerpet",pincode:"500038"},"false","jr analyst");

print=function(){

    console.log(person1);

    console.log(person2);

}();

amitabh=new person("amitabh", "bachan",22,['c'],"24/10/1997",{city:"hyberabad",pincode:"521185"},"false","sr analyst")

abhishek=new person("abhishek",21,['html'],"8/6/1997","false","jr analyst")

var abhishek=Object.create(amitabh);

aaradhya=new person("aaradhya",20,['python'],"10/5/2000","fresher")

var aaradhya=Object.create(amitabh,abhishek);

print=function(){

    console.log(amitabh);

    console.log(abhishek.lname);

    console.log(abhishek.address);

    console.log(aaradhya);

}();

Q. Create a JS program to implement :

class Person{

    constructor(accountnumber, accountholdername, accountbalance){

        this.accountnumber=accountnumber;

        this.accountholdername=accountholdername;

        this.accountbalance=accountbalance;

    }

}

class Savings extends Person{

    constructor(accountnumber, accountholdername, accountbalance, issalary){

        super(accountnumber,accountholdername, accountbalance)

        this.issalary=issalary;

        this.withdraw=function(ammount){

            this.accountbalance-=ammount;

            if(accountbalance<0)

                return -1;

        }

    }

}

class Current extends Person{

    constructor(accountnumber, accountholdername, accountbalance, odLimit){

        super(accountnumber,accountholdername, accountbalance)

        this.odlimit=odLimit;

        this.withdraw=function(ammount){

            this.accountbalance-=ammount;

            if(accountbalance<0)

                return -1;

        }

    }

}

var s1=new Savings9(0201024, "Changu Vadapavwala", 25000, 1);

s1.withdraw(5000);

s1.getCurrentBalance();