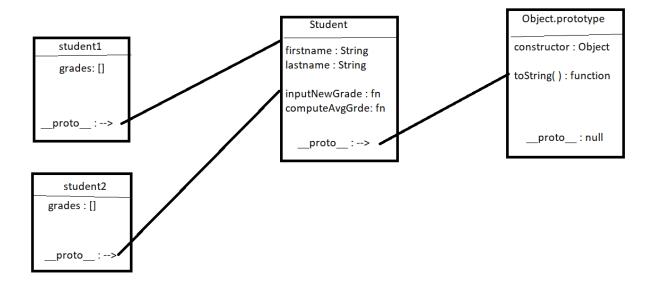
Question 1: Answer

```
let student = {
    firstName: "",
    lastName: "",
    // grades : [],
    inputNewGrade: function (newGrade) {
        if (typeof this.grades == 'object') {
            //do something
            this.grades.push(newGrade);
        } else {
            this.grades = [];
            this.grades.push(newGrade)
    },
    computeAverageGrade: function () {
        return this.grades.reduce(function (a, b) {
            return a + b;
        }, 0) / this.grades.length;
let student1 = Object.create(student);
student1.inputNewGrade(3.2);
student1.inputNewGrade(3.5);
student1.inputNewGrade(3.3);
student1.firstName = "asad";
let student2 = Object.create(student);
student2.inputNewGrade(3.9);
student2.inputNewGrade(3.4);
student2.inputNewGrade(3.3);
student2.inputNewGrade(3.3);
student2.firstName = "Naveed";
let studentArray = [student1, student2];
studentArray.forEach(student => {
   // studentArray[0];
    console.log(student.computeAverageGrade());
});
```

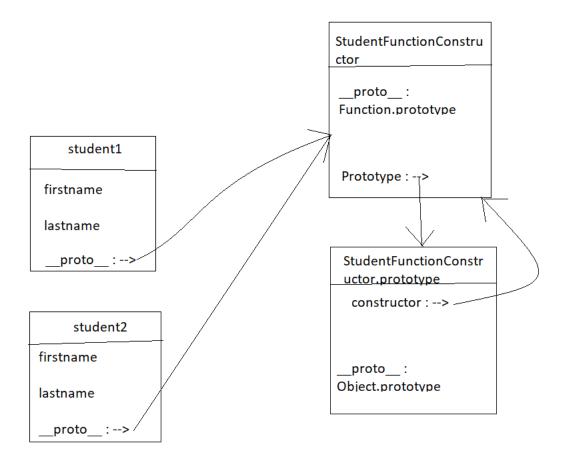
Diagram:



Question 2: Answer

```
function StudentFunctionConstructor() {
    this.firstName = "",
    this.lastName = ""
        // this.computeAverageGrade =
StudentFunctionConstructor.prototype.inputNewGrade = function (newGrade) {
        if (typeof this.grades == 'object') {
            //do something
            this.grades.push(newGrade);
        } else {
            this.grades = [];
            this.grades.push(newGrade)
StudentFunctionConstructor.prototype.computeAverageGrade = function () {
    return this.grades.reduce(function (a, b) {
        return a + b;
    }, 0) / this.grades.length;
let studentCons1 = new StudentFunctionConstructor();
studentCons1.inputNewGrade(3.2);
studentCons1.inputNewGrade(3.5);
let studentCons2 = new StudentFunctionConstructor();
studentCons2.inputNewGrade(3.6);
studentCons2.inputNewGrade(3.2);
let studentConsArray = [studentCons1, studentCons2];
studentConsArray.forEach(student => {
    console.log(student.computeAverageGrade());
```

Diagram:



Question 3: Answer