

```

use ass11
db.students.insertMany([
  { _id: 1, name: "Aaru", subject: "Maths", marks: 85 },
  { _id: 2, name: "Sanika", subject: "Science", marks: 90 },
  { _id: 3, name: "Shubham", subject: "Maths", marks: 75 },
  { _id: 4, name: "Khushi", subject: "Science", marks: 80 },
  { _id: 5, name: "Arya", subject: "English", marks: 95 },
  { _id: 6, name: "Rohan", subject: "Maths", marks: 65 }
]);

var mapFunction = function() {
  emit(this.subject, { totalMarks: this.marks, count: 1 });
};

var reduceFunction = function(subject, values) {
  var result = { totalMarks: 0, count: 0 };

  values.forEach(function(value) {
    result.totalMarks += value.totalMarks;
    result.count += value.count;
  });

  return result;
};

var finalizeFunction = function(subject, reducedValue) {
  reducedValue.avgMarks = reducedValue.totalMarks / reducedValue.count;
  return reducedValue;
};

db.students.mapReduce(
  mapFunction,
  reduceFunction,
  {
    out: "subject_avg_marks",
    finalize: finalizeFunction
  }
);

db.subject_avg_marks.find().pretty();

```