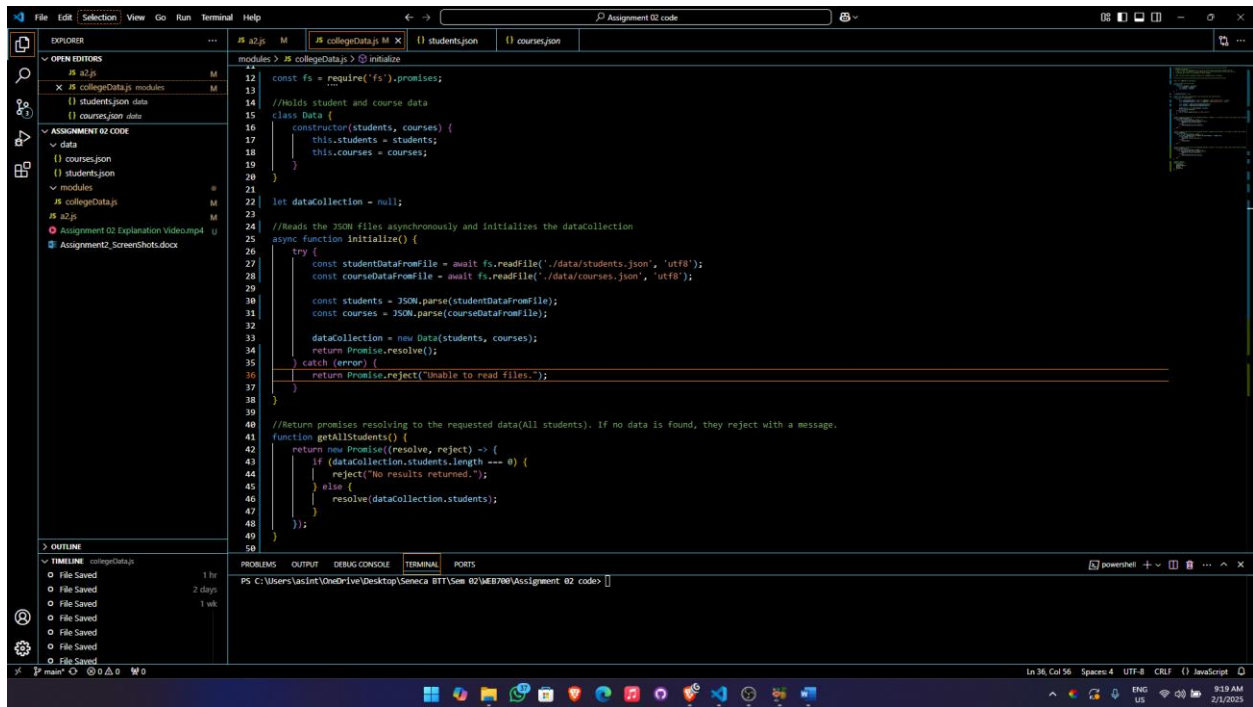
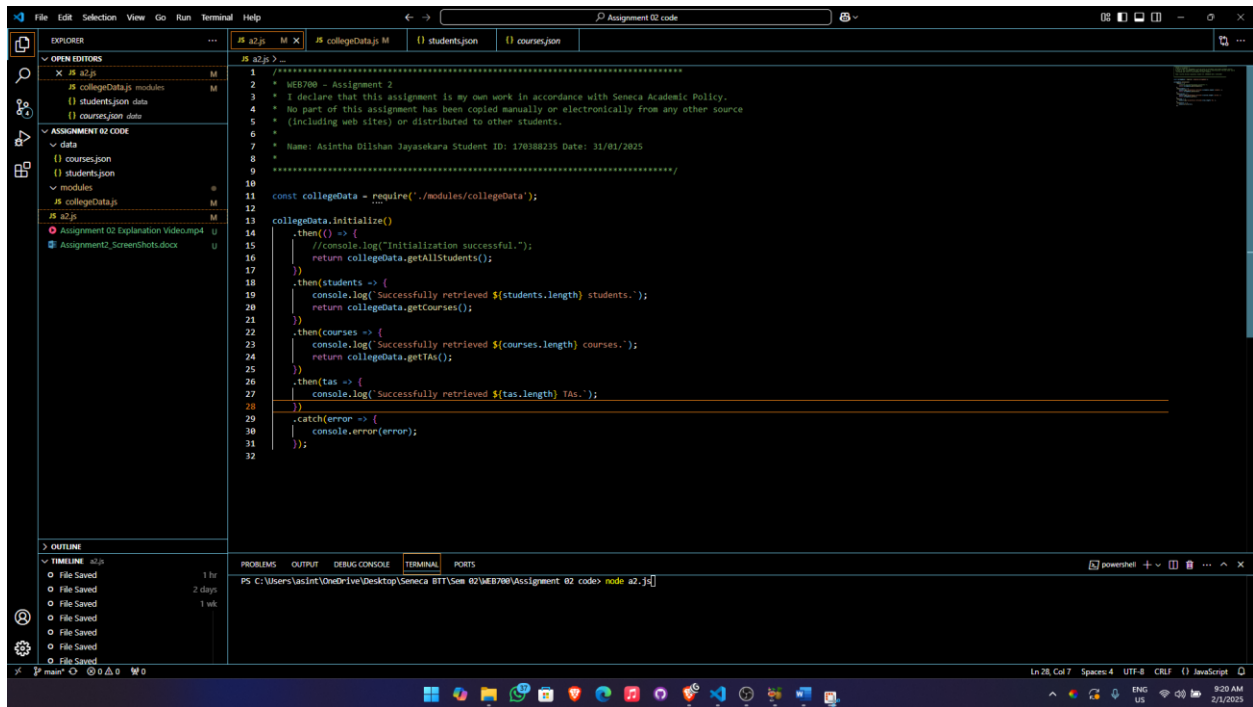


WEB700_Assignment2_Asintha Dilshan Jayasekara (170388235)



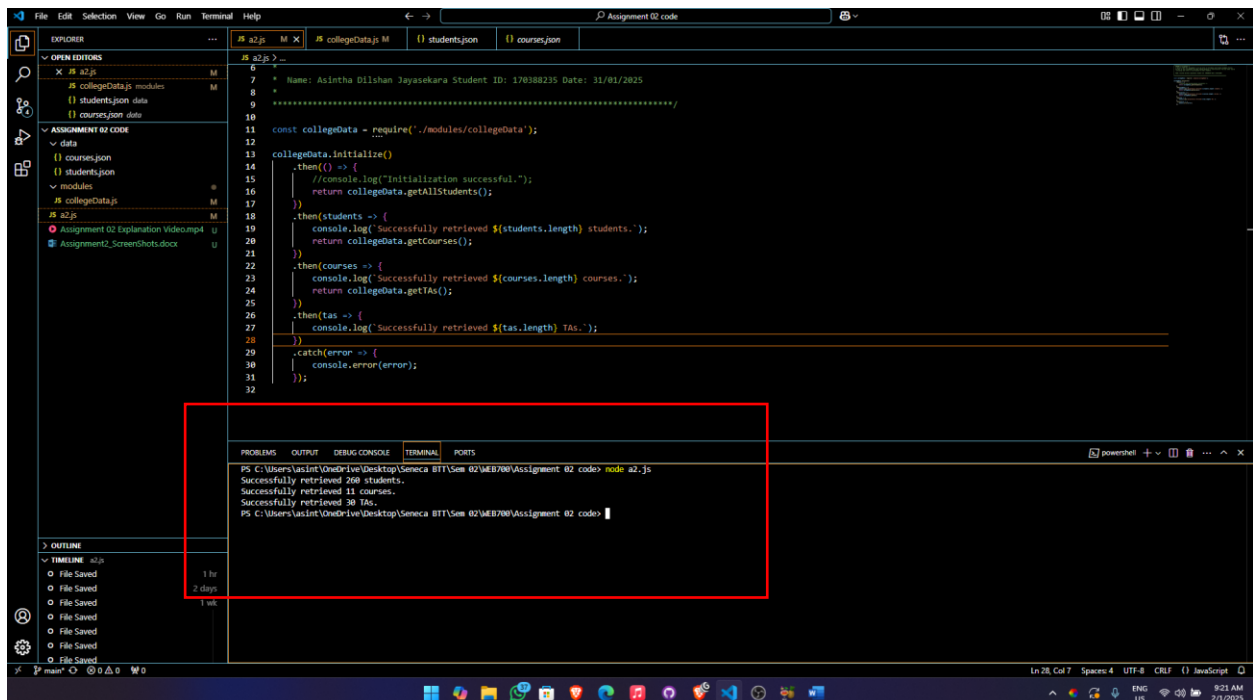
```
1  modules > # collegeData.js > initialize
2  const fs = require('fs').promises;
3
4  //Holds student and course data
5  class Data {
6    constructor(students, courses) {
7      this.students = students;
8      this.courses = courses;
9    }
10
11    let dataCollection = null;
12
13    //Reads the JSON files asynchronously and initializes the dataCollection
14    async function initialize() {
15      try {
16        const studentDataFromFile = await fs.readFile('./data/students.json', 'utf8');
17        const courseDataFromFile = await fs.readFile('./data/courses.json', 'utf8');
18
19        const students = JSON.parse(studentDataFromFile);
20        const courses = JSON.parse(courseDataFromFile);
21
22        dataCollection = new Data(students, courses);
23        return Promise.resolve();
24      } catch (error) {
25        return Promise.reject("Unable to read files.");
26      }
27    }
28
29    //Return promises resolving to the requested data(All students). If no data is found, they reject with a message.
30    function getAllStudents() {
31      return new Promise((resolve, reject) => {
32        if (dataCollection.students.length === 0) {
33          reject("No results returned.");
34        } else {
35          resolve(dataCollection.students);
36        }
37      });
38    }
39  }
40
41  function getStudents() {
42    return new Promise((resolve, reject) => {
43      if (dataCollection.students.length === 0) {
44        reject("No results returned.");
45      } else {
46        resolve(dataCollection.students);
47      }
48    });
49  }
50
51  //Export modules
52  module.exports = {
53    initialize,
54    getAllStudents,
55    getStudents,
56    getCourses
57  };
58
59  //Test the module
60  const data = new Data([], []);
61  data.initialize().then(() => {
62    console.log('Data loaded successfully');
63  }).catch((error) => {
64    console.log(error);
65  });
66
67  const students = data.getAllStudents();
68  console.log(students);
69
70  const courses = data.getCourses();
71  console.log(courses);
72
73  //Export modules
74  module.exports = {
75    initialize,
76    getAllStudents,
77    getStudents,
78    getCourses
79  };
80
81  //Test the module
82  const data = new Data([], []);
83  data.initialize().then(() => {
84    console.log('Data loaded successfully');
85  }).catch((error) => {
86    console.log(error);
87  });
88
89  const students = data.getAllStudents();
90  console.log(students);
91
92  const courses = data.getCourses();
93  console.log(courses);
94
95  //Export modules
96  module.exports = {
97    initialize,
98    getAllStudents,
99    getStudents,
100    getCourses
101  };
102
103  //Test the module
104  const data = new Data([], []);
105  data.initialize().then(() => {
106    console.log('Data loaded successfully');
107  }).catch((error) => {
108    console.log(error);
109  });
110
111  const students = data.getAllStudents();
112  console.log(students);
113
114  const courses = data.getCourses();
115  console.log(courses);
116
117  //Export modules
118  module.exports = {
119    initialize,
120    getAllStudents,
121    getStudents,
122    getCourses
123  };
124
125  //Test the module
126  const data = new Data([], []);
127  data.initialize().then(() => {
128    console.log('Data loaded successfully');
129  }).catch((error) => {
130    console.log(error);
131  });
132
133  const students = data.getAllStudents();
134  console.log(students);
135
136  const courses = data.getCourses();
137  console.log(courses);
138
139  //Export modules
140  module.exports = {
141    initialize,
142    getAllStudents,
143    getStudents,
144    getCourses
145  };
146
147  //Test the module
148  const data = new Data([], []);
149  data.initialize().then(() => {
150    console.log('Data loaded successfully');
151  }).catch((error) => {
152    console.log(error);
153  });
154
155  const students = data.getAllStudents();
156  console.log(students);
157
158  const courses = data.getCourses();
159  console.log(courses);
160
161  //Export modules
162  module.exports = {
163    initialize,
164    getAllStudents,
165    getStudents,
166    getCourses
167  };
168
169  //Test the module
170  const data = new Data([], []);
171  data.initialize().then(() => {
172    console.log('Data loaded successfully');
173  }).catch((error) => {
174    console.log(error);
175  });
176
177  const students = data.getAllStudents();
178  console.log(students);
179
180  const courses = data.getCourses();
181  console.log(courses);
182
183  //Export modules
184  module.exports = {
185    initialize,
186    getAllStudents,
187    getStudents,
188    getCourses
189  };
190
191  //Test the module
192  const data = new Data([], []);
193  data.initialize().then(() => {
194    console.log('Data loaded successfully');
195  }).catch((error) => {
196    console.log(error);
197  });
198
199  const students = data.getAllStudents();
200  console.log(students);
201
202  const courses = data.getCourses();
203  console.log(courses);
204
205  //Export modules
206  module.exports = {
207    initialize,
208    getAllStudents,
209    getStudents,
210    getCourses
211  };
212
213  //Test the module
214  const data = new Data([], []);
215  data.initialize().then(() => {
216    console.log('Data loaded successfully');
217  }).catch((error) => {
218    console.log(error);
219  });
220
221  const students = data.getAllStudents();
222  console.log(students);
223
224  const courses = data.getCourses();
225  console.log(courses);
226
227  //Export modules
228  module.exports = {
229    initialize,
230    getAllStudents,
231    getStudents,
232    getCourses
233  };
234
235  //Test the module
236  const data = new Data([], []);
237  data.initialize().then(() => {
238    console.log('Data loaded successfully');
239  }).catch((error) => {
240    console.log(error);
241  });
242
243  const students = data.getAllStudents();
244  console.log(students);
245
246  const courses = data.getCourses();
247  console.log(courses);
248
249  //Export modules
250  module.exports = {
251    initialize,
252    getAllStudents,
253    getStudents,
254    getCourses
255  };
256
257  //Test the module
258  const data = new Data([], []);
259  data.initialize().then(() => {
260    console.log('Data loaded successfully');
261  }).catch((error) => {
262    console.log(error);
263  });
264
265  const students = data.getAllStudents();
266  console.log(students);
267
268  const courses = data.getCourses();
269  console.log(courses);
270
271  //Export modules
272  module.exports = {
273    initialize,
274    getAllStudents,
275    getStudents,
276    getCourses
277  };
278
279  //Test the module
280  const data = new Data([], []);
281  data.initialize().then(() => {
282    console.log('Data loaded successfully');
283  }).catch((error) => {
284    console.log(error);
285  });
286
287  const students = data.getAllStudents();
288  console.log(students);
289
290  const courses = data.getCourses();
291  console.log(courses);
292
293  //Export modules
294  module.exports = {
295    initialize,
296    getAllStudents,
297    getStudents,
298    getCourses
299  };
300
301  //Test the module
302  const data = new Data([], []);
303  data.initialize().then(() => {
304    console.log('Data loaded successfully');
305  }).catch((error) => {
306    console.log(error);
307  });
308
309  const students = data.getAllStudents();
310  console.log(students);
311
312  const courses = data.getCourses();
313  console.log(courses);
314
315  //Export modules
316  module.exports = {
317    initialize,
318    getAllStudents,
319    getStudents,
320    getCourses
321  };
322
323  //Test the module
324  const data = new Data([], []);
325  data.initialize().then(() => {
326    console.log('Data loaded successfully');
327  }).catch((error) => {
328    console.log(error);
329  });
330
331  const students = data.getAllStudents();
332  console.log(students);
333
334  const courses = data.getCourses();
335  console.log(courses);
336
337  //Export modules
338  module.exports = {
339    initialize,
340    getAllStudents,
341    getStudents,
342    getCourses
343  };
344
345  //Test the module
346  const data = new Data([], []);
347  data.initialize().then(() => {
348    console.log('Data loaded successfully');
349  }).catch((error) => {
350    console.log(error);
351  });
352
353  const students = data.getAllStudents();
354  console.log(students);
355
356  const courses = data.getCourses();
357  console.log(courses);
358
359  //Export modules
360  module.exports = {
361    initialize,
362    getAllStudents,
363    getStudents,
364    getCourses
365  };
366
367  //Test the module
368  const data = new Data([], []);
369  data.initialize().then(() => {
370    console.log('Data loaded successfully');
371  }).catch((error) => {
372    console.log(error);
373  });
374
375  const students = data.getAllStudents();
376  console.log(students);
377
378  const courses = data.getCourses();
379  console.log(courses);
380
381  //Export modules
382  module.exports = {
383    initialize,
384    getAllStudents,
385    getStudents,
386    getCourses
387  };
388
389  //Test the module
390  const data = new Data([], []);
391  data.initialize().then(() => {
392    console.log('Data loaded successfully');
393  }).catch((error) => {
394    console.log(error);
395  });
396
397  const students = data.getAllStudents();
398  console.log(students);
399
400  const courses = data.getCourses();
401  console.log(courses);
402
403  //Export modules
404  module.exports = {
405    initialize,
406    getAllStudents,
407    getStudents,
408    getCourses
409  };
410
411  //Test the module
412  const data = new Data([], []);
413  data.initialize().then(() => {
414    console.log('Data loaded successfully');
415  }).catch((error) => {
416    console.log(error);
417  });
418
419  const students = data.getAllStudents();
420  console.log(students);
421
422  const courses = data.getCourses();
423  console.log(courses);
424
425  //Export modules
426  module.exports = {
427    initialize,
428    getAllStudents,
429    getStudents,
430    getCourses
431  };
432
433  //Test the module
434  const data = new Data([], []);
435  data.initialize().then(() => {
436    console.log('Data loaded successfully');
437  }).catch((error) => {
438    console.log(error);
439  });
440
441  const students = data.getAllStudents();
442  console.log(students);
443
444  const courses = data.getCourses();
445  console.log(courses);
446
447  //Export modules
448  module.exports = {
449    initialize,
450    getAllStudents,
451    getStudents,
452    getCourses
453  };
454
455  //Test the module
456  const data = new Data([], []);
457  data.initialize().then(() => {
458    console.log('Data loaded successfully');
459  }).catch((error) => {
460    console.log(error);
461  });
462
463  const students = data.getAllStudents();
464  console.log(students);
465
466  const courses = data.getCourses();
467  console.log(courses);
468
469  //Export modules
470  module.exports = {
471    initialize,
472    getAllStudents,
473    getStudents,
474    getCourses
475  };
476
477  //Test the module
478  const data = new Data([], []);
479  data.initialize().then(() => {
480    console.log('Data loaded successfully');
481  }).catch((error) => {
482    console.log(error);
483  });
484
485  const students = data.getAllStudents();
486  console.log(students);
487
488  const courses = data.getCourses();
489  console.log(courses);
490
491  //Export modules
492  module.exports = {
493    initialize,
494    getAllStudents,
495    getStudents,
496    getCourses
497  };
498
499  //Test the module
500  const data = new Data([], []);
501  data.initialize().then(() => {
502    console.log('Data loaded successfully');
503  }).catch((error) => {
504    console.log(error);
505  });
506
507  const students = data.getAllStudents();
508  console.log(students);
509
510  const courses = data.getCourses();
511  console.log(courses);
512
513  //Export modules
514  module.exports = {
515    initialize,
516    getAllStudents,
517    getStudents,
518    getCourses
519  };
520
521  //Test the module
522  const data = new Data([], []);
523  data.initialize().then(() => {
524    console.log('Data loaded successfully');
525  }).catch((error) => {
526    console.log(error);
527  });
528
529  const students = data.getAllStudents();
530  console.log(students);
531
532  const courses = data.getCourses();
533  console.log(courses);
534
535  //Export modules
536  module.exports = {
537    initialize,
538    getAllStudents,
539    getStudents,
540    getCourses
541  };
542
543  //Test the module
544  const data = new Data([], []);
545  data.initialize().then(() => {
546    console.log('Data loaded successfully');
547  }).catch((error) => {
548    console.log(error);
549  });
550
551  const students = data.getAllStudents();
552  console.log(students);
553
554  const courses = data.getCourses();
555  console.log(courses);
556
557  //Export modules
558  module.exports = {
559    initialize,
560    getAllStudents,
561    getStudents,
562    getCourses
563  };
564
565  //Test the module
566  const data = new Data([], []);
567  data.initialize().then(() => {
568    console.log('Data loaded successfully');
569  }).catch((error) => {
570    console.log(error);
571  });
572
573  const students = data.getAllStudents();
574  console.log(students);
575
576  const courses = data.getCourses();
577  console.log(courses);
578
579  //Export modules
580  module.exports = {
581    initialize,
582    getAllStudents,
583    getStudents,
584    getCourses
585  };
586
587  //Test the module
588  const data = new Data([], []);
589  data.initialize().then(() => {
590    console.log('Data loaded successfully');
591  }).catch((error) => {
592    console.log(error);
593  });
594
595  const students = data.getAllStudents();
596  console.log(students);
597
598  const courses = data.getCourses();
599  console.log(courses);
600
601  //Export modules
602  module.exports = {
603    initialize,
604    getAllStudents,
605    getStudents,
606    getCourses
607  };
608
609  //Test the module
610  const data = new Data([], []);
611  data.initialize().then(() => {
612    console.log('Data loaded successfully');
613  }).catch((error) => {
614    console.log(error);
615  });
616
617  const students = data.getAllStudents();
618  console.log(students);
619
620  const courses = data.getCourses();
621  console.log(courses);
622
623  //Export modules
624  module.exports = {
625    initialize,
626    getAllStudents,
627    getStudents,
628    getCourses
629  };
630
631  //Test the module
632  const data = new Data([], []);
633  data.initialize().then(() => {
634    console.log('Data loaded successfully');
635  }).catch((error) => {
636    console.log(error);
637  });
638
639  const students = data.getAllStudents();
640  console.log(students);
641
642  const courses = data.getCourses();
643  console.log(courses);
644
645  //Export modules
646  module.exports = {
647    initialize,
648    getAllStudents,
649    getStudents,
650    getCourses
651  };
652
653  //Test the module
654  const data = new Data([], []);
655  data.initialize().then(() => {
656    console.log('Data loaded successfully');
657  }).catch((error) => {
658    console.log(error);
659  });
660
661  const students = data.getAllStudents();
662  console.log(students);
663
664  const courses = data.getCourses();
665  console.log(courses);
666
667  //Export modules
668  module.exports = {
669    initialize,
670    getAllStudents,
671    getStudents,
672    getCourses
673  };
674
675  //Test the module
676  const data = new Data([], []);
677  data.initialize().then(() => {
678    console.log('Data loaded successfully');
679  }).catch((error) => {
680    console.log(error);
681  });
682
683  const students = data.getAllStudents();
684  console.log(students);
685
686  const courses = data.getCourses();
687  console.log(courses);
688
689  //Export modules
690  module.exports = {
691    initialize,
692    getAllStudents,
693    getStudents,
694    getCourses
695  };
696
697  //Test the module
698  const data = new Data([], []);
699  data.initialize().then(() => {
700    console.log('Data loaded successfully');
701  }).catch((error) => {
702    console.log(error);
703  });
704
705  const students = data.getAllStudents();
706  console.log(students);
707
708  const courses = data.getCourses();
709  console.log(courses);
710
711  //Export modules
712  module.exports = {
713    initialize,
714    getAllStudents,
715    getStudents,
716    getCourses
717  };
718
719  //Test the module
720  const data = new Data([], []);
721  data.initialize().then(() => {
722    console.log('Data loaded successfully');
723  }).catch((error) => {
724    console.log(error);
725  });
726
727  const students = data.getAllStudents();
728  console.log(students);
729
730  const courses = data.getCourses();
731  console.log(courses);
732
733  //Export modules
734  module.exports = {
735    initialize,
736    getAllStudents,
737    getStudents,
738    getCourses
739  };
740
741  //Test the module
742  const data = new Data([], []);
743  data.initialize().then(() => {
744    console.log('Data loaded successfully');
745  }).catch((error) => {
746    console.log(error);
747  });
748
749  const students = data.getAllStudents();
750  console.log(students);
751
752  const courses = data.getCourses();
753  console.log(courses);
754
755  //Export modules
756  module.exports = {
757    initialize,
758    getAllStudents,
759    getStudents,
760    getCourses
761  };
762
763  //Test the module
764  const data = new Data([], []);
765  data.initialize().then(() => {
766    console.log('Data loaded successfully');
767  }).catch((error) => {
768    console.log(error);
769  });
770
771  const students = data.getAllStudents();
772  console.log(students);
773
774  const courses = data.getCourses();
775  console.log(courses);
776
777  //Export modules
778  module.exports = {
779    initialize,
780    getAllStudents,
781    getStudents,
782    getCourses
783  };
784
785  //Test the module
786  const data = new Data([], []);
787  data.initialize().then(() => {
788    console.log('Data loaded successfully');
789  }).catch((error) => {
790    console.log(error);
791  });
792
793  const students = data.getAllStudents();
794  console.log(students);
795
796  const courses = data.getCourses();
797  console.log(courses);
798
799  //Export modules
800  module.exports = {
801    initialize,
802    getAllStudents,
803    getStudents,
804    getCourses
805  };
806
807  //Test the module
808  const data = new Data([], []);
809  data.initialize().then(() => {
810    console.log('Data loaded successfully');
811  }).catch((error) => {
812    console.log(error);
813  });
814
815  const students = data.getAllStudents();
816  console.log(students);
817
818  const courses = data.getCourses();
819  console.log(courses);
820
821  //Export modules
822  module.exports = {
823    initialize,
824    getAllStudents,
825    getStudents,
826    getCourses
827  };
828
829  //Test the module
830  const data = new Data([], []);
831  data.initialize().then(() => {
832    console.log('Data loaded successfully');
833  }).catch((error) => {
834    console.log(error);
835  });
836
837  const students = data.getAllStudents();
838  console.log(students);
839
840  const courses = data.getCourses();
841  console.log(courses);
842
843  //Export modules
844  module.exports = {
845    initialize,
846    getAllStudents,
847    getStudents,
848    getCourses
849  };
850
851  //Test the module
852  const data = new Data([], []);
853  data.initialize().then(() => {
854    console.log('Data loaded successfully');
855  }).catch((error) => {
856    console.log(error);
857  });
858
859  const students = data.getAllStudents();
860  console.log(students);
861
862  const courses = data.getCourses();
863  console.log(courses);
864
865  //Export modules
866  module.exports = {
867    initialize,
868    getAllStudents,
869    getStudents,
870    getCourses
871  };
872
873  //Test the module
874  const data = new Data([], []);
875  data.initialize().then(() => {
876    console.log('Data loaded successfully');
877  }).catch((error) => {
878    console.log(error);
879  });
880
881  const students = data.getAllStudents();
882  console.log(students);
883
884  const courses = data.getCourses();
885  console.log(courses);
886
887  //Export modules
888  module.exports = {
889    initialize,
890    getAllStudents,
891    getStudents,
892    getCourses
893  };
894
895  //Test the module
896  const data = new Data([], []);
897  data.initialize().then(() => {
898    console.log('Data loaded successfully');
899  }).catch((error) => {
900    console.log(error);
901  });
902
903  const students = data.getAllStudents();
904  console.log(students);
905
906  const courses = data.getCourses();
907  console.log(courses);
908
909  //Export modules
910  module.exports = {
911    initialize,
912    getAllStudents,
913    getStudents,
914    getCourses
915  };
916
917  //Test the module
918  const data = new Data([], []);
919  data.initialize().then(() => {
920    console.log('Data loaded successfully');
921  }).catch((error) => {
922    console.log(error);
923  });
924
925  const students = data.getAllStudents();
926  console.log(students);
927
928  const courses = data.getCourses();
929  console.log(courses);
930
931  //Export modules
932  module.exports = {
933    initialize,
934    getAllStudents,
935    getStudents,
936    getCourses
937  };
938
939  //Test the module
940  const data = new Data([], []);
941  data.initialize().then(() => {
942    console.log('Data loaded successfully');
943  }).catch((error) => {
944    console.log(error);
945  });
946
947  const students = data.getAllStudents();
948  console.log(students);
949
950  const courses = data.getCourses();
951  console.log(courses);
952
953  //Export modules
954  module.exports = {
955    initialize,
956    getAllStudents,
957    getStudents,
958    getCourses
959  };
960
961  //Test the module
962  const data = new Data([], []);
963  data.initialize().then(() => {
964    console.log('Data loaded successfully');
965  }).catch((error) => {
966    console.log(error);
967  });
968
969  const students = data.getAllStudents();
970  console.log(students);
971
972  const courses = data.getCourses();
973  console.log(courses);
974
975  //Export modules
976  module.exports = {
977    initialize,
978    getAllStudents,
979    getStudents,
980    getCourses
981  };
982
983  //Test the module
984  const data = new Data([], []);
985  data.initialize().then(() => {
986    console.log('Data loaded successfully');
987  }).catch((error) => {
988    console.log(error);
989  });
990
991  const students = data.getAllStudents();
992  console.log(students);
993
994  const courses = data.getCourses();
995  console.log(courses);
996
997  //Export modules
998  module.exports = {
999    initialize,
1000    getAllStudents,
1001    getStudents,
1002    getCourses
1003  };
1004
1005  //Test the module
1006  const data = new Data([], []);
1007  data.initialize().then(() => {
1008    console.log('Data loaded successfully');
1009  }).catch((error) => {
1010    console.log(error);
1011  });
1012
1013  const students = data.getAllStudents();
1014  console.log(students);
1015
1016  const courses = data.getCourses();
1017  console.log(courses);
1018
1019  //Export modules
1020  module.exports = {
1021    initialize,
1022    getAllStudents,
1023    getStudents,
1024    getCourses
1025  };
1026
1027  //Test the module
1028  const data = new Data([], []);
1029  data.initialize().then(() => {
1030    console.log('Data loaded successfully');
1031  }).catch((error) => {
1032    console.log(error);
1033  });
1034
1035  const students = data.getAllStudents();
1036  console.log(students);
1037
1038  const courses = data.getCourses();
1039  console.log(courses);
1040
1041  //Export modules
1042  module.exports = {
1043    initialize,
1044    getAllStudents,
1045    getStudents,
1046    getCourses
1047  };
1048
1049  //Test the module
1050  const data = new Data([], []);
1051  data.initialize().then(() => {
1052    console.log('Data loaded successfully');
1053  }).catch((error) => {
1054    console.log(error);
1055  });
1056
1057  const students = data.getAllStudents();
1058  console.log(students);
1059
1060  const courses = data.getCourses();
1061  console.log(courses);
1062
1063  //Export modules
1064  module.exports = {
1065    initialize,
1066    getAllStudents,
1067    getStudents,
1068    getCourses
1069  };
1070
1071  //Test the module
1072  const data = new Data([], []);
1073  data.initialize().then(() => {
1074    console.log('Data loaded successfully');
1075  }).catch((error) => {
1076    console.log(error);
1077  });
1078
1079  const students = data.getAllStudents();
1080  console.log(students);
1081
1082  const courses = data.getCourses();
1083  console.log(courses);
1084
1085  //Export modules
1086  module.exports = {
1087    initialize,
1088    getAllStudents,
1089    getStudents,
1090    getCourses
1091  };
1092
1093  //Test the module
1094  const data = new Data([], []);
1095  data.initialize().then(() => {
1096    console.log('Data loaded successfully');
1097  }).catch((error) => {
1098    console.log(error);
1099  });
1100
1101  const students = data.getAllStudents();
1102  console.log(students);
1103
1104  const courses = data.getCourses();
1105  console.log(courses);
1106
1107  //Export modules
1108  module.exports = {
1109    initialize,
1110    getAllStudents,
1111    getStudents,
1112    getCourses
1113  };
1114
1115  //Test the module
1116  const data = new Data([], []);
1117  data.initialize().then(() => {
1118    console.log('Data loaded successfully');
1119  }).catch((error) => {
1120    console.log(error);
1121  });
1122
1123  const students = data.getAllStudents();
1124  console.log(students);
1125
1126  const courses = data.getCourses();
1127  console.log(courses);
1128
1129  //Export modules
1130  module.exports = {
1131    initialize,
1132    getAllStudents,
1133    getStudents,
1134    getCourses
1135  };
1136
1137  //Test the module
1138  const data = new Data([], []);
1139  data.initialize().then(() => {
1140    console.log('Data loaded successfully');
1141  }).catch((error) => {
1142    console.log(error);
1143  });
1144
1145  const students = data.getAllStudents();
1146  console.log(students);
1147
1148  const courses = data.getCourses();
1149  console.log(courses);
1150
1151  //Export modules
1152  module.exports = {
1153    initialize,
1154    getAllStudents,
1155    getStudents,
1156    getCourses
1157  };
1158
1159  //Test the module
1160  const data = new Data([], []);
1161  data.initialize().then(() => {
1162    console.log('Data loaded successfully');
1163  }).catch((error) => {
1164    console.log(error);
1165  });
1166
1167  const students = data.getAllStudents();
1168  console.log(students);
1169
1170  const courses = data.getCourses();
1171  console.log(courses);
1172
1173  //Export modules
1174  module.exports = {
1175    initialize,
1176    getAllStudents,
1177    getStudents,
1178    getCourses
1179  };
1180
1181  //Test the module
1182  const data = new Data([], []);
1183  data.initialize().then(() => {
1184    console.log('Data loaded successfully');
1185  }).catch((error) => {
1186    console.log(error);
1187  });
1188
1189  const students = data.getAllStudents();
1190  console.log(students);
1191
1192  const courses = data.getCourses();
1193  console.log(courses);
1194
1195  //Export modules
1196  module.exports = {
1197    initialize,
1198    getAllStudents,
1199    getStudents,
1200    getCourses
1201  };
1202
1203  //Test the module
1204  const data = new Data([], []);
1205  data.initialize().then(() => {
1206    console.log('Data loaded successfully');
1207  }).catch((error) => {
1208    console.log(error);
1209  });
1210
1211  const students = data.getAllStudents();
1212  console.log(students);
1213
1214  const courses = data.getCourses();
1215  console.log(courses);
1216
1217  //Export modules
1218  module.exports = {
1219    initialize,
1220    getAllStudents,
1221    getStudents,
1222    getCourses
1223  };
1224
1225  //Test the module
1226  const data = new Data([], []);
1227  data.initialize().then(() => {
1228    console.log('Data loaded successfully');
1229  }).catch((error) => {
1230    console.log(error);
1231  });
1232
1233  const students = data.getAllStudents();
1234  console.log(students);
1235
1236  const courses = data.getCourses();
1237  console.log(courses);
1238
1239  //Export modules
1240  module.exports = {
1241    initialize,
1242    getAllStudents,
1243    getStudents,
1244    getCourses
1245  };
1246
1247  //Test the module
1248  const data = new Data([], []);
1249  data.initialize().then(() => {
1250    console.log('Data loaded successfully');
1251  }).catch((error) => {
1252    console.log(error);
1253  });
1254
1255  const students = data.getAllStudents();
1256  console.log(students);
1257
1258  const courses = data.getCourses();
1259  console.log(courses);
1260
1261  //Export modules
1262  module.exports = {
1263    initialize,
1264    getAllStudents,
1265    getStudents,
1266    getCourses
1267  };
1268
1269  //Test the module
1270  const data = new Data([], []);
1271  data.initialize().then(() => {
1272    console.log('Data loaded successfully');
1273  }).catch((error) => {
1274    console.log(error);
1275  });
1276
1277  const students = data.getAllStudents();
1278  console.log(students);
1279
1280  const courses = data.getCourses();
1281  console.log(courses);
1282
1283  //Export modules
1284  module.exports = {
1285    initialize,
1286    getAllStudents,
1287    getStudents,
1288    getCourses
1289  };
1290
1291  //Test the module
1292  const data = new Data([], []);
1293  data.initialize().then(() => {
1294    console.log('Data loaded successfully');
1295  }).catch((error) => {
1296    console.log(error);
1297  });
1298
1299  const students = data.getAllStudents();
1300  console.log(students);
1301
1302  const courses = data.getCourses();
1303  console.log(courses);
1304
1305  //Export modules
1306  module.exports = {
1307    initialize,
1308    getAllStudents,
1309    getStudents,
1310    getCourses
1311  };
1312
1313  //Test the module
1314  const data = new Data([], []);
1315  data.initialize().then(() => {
1316    console.log('Data loaded successfully');
1317  }).catch((error) => {
1318    console.log(error);
1319  });
1320
1321  const students = data.getAllStudents();
1322  console.log(students);
1323
1324  const courses = data.getCourses();
1325  console.log(courses);
1326
1327  //Export modules
1328  module.exports = {
1329    initialize,
1330    getAllStudents,
1331    getStudents,
1332    getCourses
1333  };
1334
1335  //Test the module
1336  const data = new Data([], []);
1337  data.initialize().then(() => {
1338    console.log('Data loaded successfully');
1339  }).catch((error) => {
1340    console.log(error);
1341  });
1342
1343  const students = data.getAllStudents();
1344  console.log(students);
1345
1346  const courses = data.getCourses();
1347  console.log(courses);
1348
1349  //Export modules
1350  module.exports = {
1351    initialize,
1352    getAllStudents,
1353    getStudents,
1354    getCourses
1355  };
1356
1357  //Test the module
1358  const data = new Data([], []);
1359  data.initialize().then(() => {
1360    console.log('Data loaded successfully');
1361  }).catch((error) => {
1362    console.log(error);
1363  });
1364
1365  const students = data.getAllStudents();
1366  console.log(students);
1367
1368  const courses = data.getCourses();
1369  console.log(courses);
1370
1371  //Export modules
1372  module.exports = {
1373    initialize,
1374    getAllStudents,
1375    getStudents,
1376    getCourses
1377  };
1
```

WEB700_Assignment2_Asintha Dilshan Jayasekara (170388235)



```
1 // =====  
2 * WEB700 - Assignment 2  
3 * I declare that this assignment is my own work in accordance with Seneca Academic Policy.  
4 * No part of this assignment has been copied manually or electronically from any other source  
5 * (including web sites) or distributed to other students.  
6 *  
7 * Name: Asintha Dilshan Jayasekara Student ID: 170388235 Date: 31/01/2025  
8 *  
9 * =====  
10  
11 const collegeData = require('./modules/collegeData');  
12  
13 collegeData.initialize()  
14 .then(() => {  
15   //console.log("Initialization successful.");  
16   return collegeData.getAllStudents();  
17 })  
18 .then(students => {  
19   console.log('Successfully retrieved ${students.length} students.');20   return collegeData.getCourses();  
21 })  
22 .then(courses => {  
23   console.log('Successfully retrieved ${courses.length} courses.');24   return collegeData.getTAs();  
25 })  
26 .then(tas => {  
27   console.log('Successfully retrieved ${tas.length} TAs.');28 })  
29 .catch(error => {  
30   console.error(error);  
31 });  
32
```

Figure 3: VSCode_Javascript_Assignment2_a2.js



```
PS C:\Users\asint\OneDrive\Desktop\Seneca BT\Sem 02\WEB700\Assignment 02 code> node a2.js  
Successfully retrieved 208 students.  
Successfully retrieved 11 courses.  
Successfully retrieved 30 TAs.  
PS C:\Users\asint\OneDrive\Desktop\Seneca BT\Sem 02\WEB700\Assignment 02 code>
```

Figure 4: VSCode_Javascript_Assignment2_Output

GitHub Link: <https://github.com/asintha-dilshan/Assignment-02-code.git>