

Code Along: Unit Testing

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1. Purpose of the classes

- **GradeBook**: stores a hash of students and their grades, can accept/retrieve grades of a specific student, can transform number grades to letter grades
- **Float**: Builds on Ruby's Float class with an extra method, allowing a number grade to return its letter translation

2. Purpose of the methods

- **add_grade**: adds a given student and their number grade to the hash
- **get_grade**: retrieves the grade of a given student from the hash
- **letter_grades**: returns new hash, keeping students as keys but translating all grades to letters with the to_grade method
- **letter_grade**: translates a given student's number grade to a letter
- **to_grade**: called on a float value, returns its letter grade translation

3. Groups of expected behaviour:

- Hash should generate successfully
- Hash should accept student/grade pairs and add them successfully
- Hash's number grades should all translate to letters successfully
- Individual number grades should translate to letters successfully

4. Limits of the cases of expected behaviour:

- Given students must be able to convert to symbol (must be strings)
- Given grades must be able to convert to float

5. Exceptional / error cases:

- Giving a student that can't convert to symbol
- Giving a grade that can't convert to float
- Trying to retrieve grade of a student that's not in the hash
- Calling letter_grade method: grade(student) isn't defined as a method anywhere