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class InvalidGradeException(Exception):
    pass


class StudentGradingSystem:
    def __init__(self):
        self.students = []

    def input_student_data(self):
        while True:
            try:
                student_name = input("Enter student name (or 'exit' to finish): ")
                if student_name.lower() == 'exit':
                    break

                grades = []
                while True:
                    grade_input = input("Enter a grade (or 'done' to finish): ")
                    if grade_input.lower() == 'done':
                        break

                    grade = self.validate_grade(grade_input)
                    grades.append(grade)

                average_grade = self.calculate_average(grades)
                grade_letter = self.determine_grade_letter(average_grade)
                self.students.append((student_name, average_grade, grade_letter))

            except InvalidGradeException as e:
                print(e)
            except ValueError as e:
                print("Invalid input. Please enter a numeric grade.")
```

```
    def validate_grade(self, grade_input):
        grade = float(grade_input)
        if grade < 0 or grade > 100:
            raise InvalidGradeException("Grade must be between 0 and 100.")
        return grade

    def calculate_average(self, grades):
        return sum(grades) / len(grades)

    def determine_grade_letter(self, average_grade):
        if average_grade >= 90:
            return 'A'
        elif average_grade >= 80:
            return 'B'
        elif average_grade >= 70:
            return 'C'
        elif average_grade >= 60:
            return 'D'
        else:
            return 'F'

    def generate_report(self):
        if not self.students:
            print("No student data available.")
        else:
            print("Student Grades Report:")
            for student_name, average_grade, grade_letter in self.students:
                print(f"Student: {student_name}, Average Grade: {average_grade:.2f}, Grade Letter:
{grade_letter}")
```

```
# Main function to run the student grading system
def main():
    system = StudentGradingSystem()
    system.input_student_data()
    system.generate_report()

main()
```