

# Setting up Gradescope Autograder for Grade Reports

- All the files are currently in the `autograder/` folder.
- Replace `grades.csv` with the new grades.
- Modify grade displaying logic

```
# Final MV Grades
def output_multivitamin_grades(grades, gs_output):
    multivitamins = [f"Multivitamin {i}" for i in range(1, 6)]
    multivitamin_outputs = []
    for mv in multivitamins:
        if grades.loc[mv + ' Notes'] == 'N':
            multivitamin_outputs.append(
                f"Your {mv} score is {grades.loc[mv + ' Score']}. You submitted {int(grades.loc[mv + ' Lateness'])} days late. {int(grades.loc[mv + ' Auto-Allocated Slip Days'])} slip days"
            )
            if grades.loc[mv + ' Late Penalty'] > 0:
                multivitamin_outputs.append(
                    f"    Because you have used up slip days, you received a {int(grades.loc[mv + ' Late Penalty'])}% deduction in your {mv} grade."
                )
        else:
            multivitamin_outputs.append(
                f"Your {mv} score is {grades.loc[mv + ' Score']}. You submitted {int(grades.loc[mv + ' Lateness'])} days late. You traded in {int(grades.loc[mv + ' Traded-in Slip Days'])}"
            )
            multivitamin_outputs.append(
                f"    Here are the notes we have on file: {grades.loc[mv + ' Notes']}"
            )
    multivitamin_outputs = np.append(
        multivitamin_outputs,
        [
            f"Your overall final multivitamin score is {grades.loc['Final Multivitamin Score']}."
        ],
    )
    gs_output["tests"].append(
        {
            "name": "Multivitamins",
            "score": round(grades.loc['Final Multivitamin Score'], 6),
            "max_score": 25,
            "output": "\n".join(multivitamin_outputs),
        }
    )
```

- To add a new section, define a new function that takes in `grades` and `gs_output`
- Inside the function. decide what you want to display in that section. For example, the function above corresponds to this section on Gradescope

## Multivitamins (25/25)

```
Your Multivitamin 1 score is 5.0. You submitted 0 days late. 0 slip days were automatically applied.
Your Multivitamin 2 score is 5.0. You submitted 0 days late. 0 slip days were automatically applied.
Your Multivitamin 3 score is 5.0. You submitted 0 days late. 0 slip days were automatically applied.
Your Multivitamin 4 score is 5.0. You submitted 0 days late. 0 slip days were automatically applied.
Your Multivitamin 5 score is 5.0. You submitted 0 days late. 0 slip days were automatically applied.
Your overall final multivitamin score is 25.0.
```

```

177         output = "\n".join(outputs),
178     }
179 )
180
181     # for staff use when viewing on Gradescope
182     print(grades)
183     print(gs_output)
184
185     output_readme(grades, gs_output)
186     output_slip_days(grades, gs_output)
187     output_multivitamin_grades(grades, gs_output)
188     output_project_grades(grades, gs_output)
189     output_lecture_attendance_grades(grades, gs_output)
190     output_final_exam_grades(grades, gs_output)
191     output_final_total_score(grades, gs_output)
192
193     out_path = "/autograder/results/results.json"
194     with open(out_path, "w") as f:
195         f.write(json.dumps(gs_output))
196

```

- Make sure to call your custom function at the end so it get included in the output.

autograder			
Name	Date Modified	Size	Kind
Archive.zip	December 19, 2023, 17:26	29 KB	ZIP archive
grades.csv	December 19, 2023, 17:26	129 KB	CSV Document
output_final_grades.py	December 19, 2023, 15:50	8 KB	Python script
requirements.txt	November 6, 2023, 02:38	28 bytes	Plain Text
run_autograder	December 6, 2021, 17:00	64 bytes	Document
setup.sh	December 9, 2023, 04:58	108 bytes	Shell Script

Finally, in the `autograder/` folder, select these files and create a zip file. Make sure you don't zip the folder, but zip the files

- Head over to Gradescope and create a new programming assignment.

## Edit Programming Assignment

Basic Settings    Section Management

\* Required field

Title \*

Final Grade Report

Autograder Points \*

100.0

Submission Anonymization

☐ Enable anonymous grading

Hide identifiable student information from being listed with submissions.

Note: When enabled, student sections are hidden and grading by section is disabled.

Canvas Assignment (LTI 1.0)

Link

Release Date \* (PST)

12/10/2023, 20:30

☐ Allow late submissions

Group Submission

☐ Enable group submission

Manual Grading

☐ Enable manual grading

Leaderboard

☐ Enable leaderboard ⓘ

Due Date \* (PST)

12/31/2023, 23:59

Late Due Date (PST)

mm/dd/yyyy, --:--

Limit Group Size:

No Max

Default Number of Entries Shown

No Max

- Upload the zip file. The autograder will then finish configuration automatically.

gradescope<sup>™</sup>  
by turnitin

< ≡

< Back to Data 101

Final Grade Report

✓ Configure Autograder

✓ Manage Submissions

✓ Review Grades

⌚ Regrade Requests

⊙ Extensions

📊 Statistics

🔍 Review Similarity

⚙️ Settings

## Configure Autograder

Upload your autograder code and change settings here. You can also come back to this step later, but submissions will not be automatically graded until then. Please follow our [guidelines](#) for structuring your autograder.

Note: Uploading an autograder zip file will automatically update your Dockerhub image name once it is built successfully.

\* Required field

**Autograder Configuration**

☒ Zip file upload ☐ Manual Docker configuration

**Autograder \***

📁 Archive.zip

Replace Autograder (.zip)

Download Autograder

Base Image OS

Base Image Version

Base Image Variant

Ubuntu

22.04

Base

Choose the [base image](#) that will be used to build your autograder. This determines the operating system version and packages available in your autograder.

Update Autograder

[✎ Test Autograder](#)

### Docker Image Status

built as of Dec 19, 2023 at 5:28:02 PM PST

▸ Build Output

▸ Build Errors

- This is it - once everything finishes, you should see student grade reports under "Manage Submissions." If scores aren't updating, try running "Regrade All Submissions" in the bottom right.