

Homework 3 Rubric – Name

[20 pts] Question 1: Grocery Store Discounts

[16 pts] Code

- ☐ 2 pts: Correct input prompt for the number of items.
- ☐ 3 pts: Correctly implements and prints a 15% discount when items are divisible by both 3 & 5.
- ☐ 3 pts: Correctly implements and prints a 10% discount when items are divisible by 3 only.
- ☐ 3 pts: Correctly implements and prints a 5% discount when items are divisible by 5 only.
- ☐ 3 pts: Correctly implements and prints "No discount available." when items are not divisible by 3 or 5.
- ☐ 2 pts: Code runs without syntax errors.

[4 pts] Testing and Comments

- ☐ 1 pt: Comment showing an input/output example where no discount is given.
- ☐ 1 pt: Comment showing an input/output example for the 5% discount scenario.
- ☐ 1 pt: Comment showing an input/output example for the 10% discount scenario.
- ☐ 1 pt: Comment showing an input/output example for the 15% discount scenario.

[20 pts] Question 2: Movie Theater Age-Based Discounts

[17 pts] Code

- ☐ 2 pts: Correct input prompt for the user's age.
- ☐ 4 pts: Correctly checks and prints "Discount eligibility: Yes" when age is between 10 and 50 (inclusive).
- ☐ 4 pts: Correctly checks and prints "Discount eligibility: Yes" when age is a multiple of 7.
- ☐ 4 pts: Correctly implements and prints "Discount eligibility: No" if neither condition is met.
- ☐ 3 pts: Code runs without syntax errors.

[3 pts] Testing and Comments

- ☐ 1 pt: Comment showing input/output where age is within 10 to 50, e.g., age 25.
- ☐ 1 pt: Comment showing input/output where age is a multiple of 7, e.g., age 14.
- ☐ 1 pt: Comment showing input/output where age does not qualify for a discount, e.g., age 55.

[20 pts] Question 3: Leap Year Checker

[17 pts] Code

- ☐ 2 pts: Correct input prompt for a year.
- ☐ 4 pts: Correctly checks and prints "Leap year" for years divisible by 4 but not by 100.
- ☐ 4 pts: Correctly checks and prints "Leap year" for years divisible by 400.
- ☐ 4 pts: Correctly checks and prints "Not a leap year" for all other years.
- ☐ 2 pts: Code runs without syntax errors.

[3 pts] Testing and Comments

- ☐ 1 pt: Comment with input/output example of a leap year divisible by 4 but not by 100, e.g., 2024.
- ☐ 1 pt: Comment with input/output example of a leap year divisible by 400, e.g., 2000.
- ☐ 1 pt: Comment with input/output example of a non-leap year. e.g., 1900.

[20 pts] Question 4: Bank Transaction Approval System

[16 pts] Code

- ☐ 2 pts: Correct input prompt for the withdrawal amount.
- ☐ 3 pts: Correctly prints "Large transaction: Approval required." if amount is greater than \$1000.
- ☐ 3 pts: Correctly prints "Transaction in review." if amount is between \$500 (inclusive) and \$1000.
- ☐ 3 pts: Correctly uses pass when amount is less than \$10, resulting in no output.
- ☐ 3 pts: Correctly prints "Transaction approved." if amount is \$10 or more but less than \$500.
- ☐ 2 pt: Code runs without syntax errors.

[4 pts] Testing and Comments

- ☐ 1 pt: Comment showing input/output for an amount greater than \$1000.
- ☐ 1 pt: Comment showing input/output for an amount between \$500 and \$1000.
- ☐ 1 pt: Comment showing input/output for an amount between \$10 and less than \$500.
- ☐ 1 pt: Comment showing input/output where the pass statement is used (amount less than \$10).

[20 pts] Question 5: Grade Categorizer

[15 pts] Code

- ☐ 1 pts: Correct input prompt for a grade.

- ☐ 3 pts: Correctly categorizes and prints "A" if grade is 90 or higher.
- ☐ 3 pts: Correctly categorizes and prints "B" if grade is between 80 and 89.
- ☐ 3 pts: Correctly categorizes and prints "C" if grade is between 70 and 79.
- ☐ 3 pts: Correctly categorizes and prints "D" if grade is between 60 and 69.
- ☐ 3 pt: Correctly categorizes and prints "F" if grade is below 60.

[5 pts] Testing and Comments

- ☐ 1 pt: Comment showing input/output for a grade resulting in "A", e.g., 95.
- ☐ 1 pt: Comment showing input/output for a grade resulting in "B", e.g., 85.
- ☐ 1 pt: Comment showing input/output for a grade resulting in "C", e.g., 75.
- ☐ 1 pt: Comment showing input/output for a grade resulting in "D", e.g., 65.
- ☐ 1 pt: Comment showing input/output for a grade resulting in "F", e.g., 55.

[-5 pts] Submission Requirements (deducted if not followed)

- ☐ -5 pts: If code does not run successfully due to syntax errors. If student submits files other than the .py file. Missing Name, ID, or Honor Code statement at the top of the file as per instructions.

Total: /100