**Name: Session:**

**Programming II**

**Lab Exercise 1.27.2023**

**Complete the following programs. When you have completed each program, submit a copy of your documented source code. Your documentation should include at a minimum name, assignment number (i.e. Lab Exercise 1.27.2023 Problem 1) and a sample output of your program run.**

1. Write a console-based program that prompts the user for an hourly pay rate. If the value entered is less than $7.50, display an error message. Save the program as CheckLowRate.cs.
2. Write a console-based program that prompts a user for an hourly pay rate. If the value entered is less than $7.50 or greater than $49.99, display an error message; otherwise, display a message indicating that the rate is okay. Save the program as CheckLowAndHighRate.cs.
3. Write a console-based program that accepts a user’s message and determines whether it is short enough for a social networking service that does not accept messages of more than 140 characters. Save the program as Twitter.cs.
4. Write a console-based program for a college’s admissions office. The user enters a numeric high school grade point average (for example, 3.2) and an admission test score. Display the message “Accept” if the student meets either of the following requirements:

• A grade point average of 3.0 or higher and an admission test score of at least 60

• A grade point average of less than 3.0 and an admission test score of at least 80

If the student does not meet either of the qualification criteria, display “Reject”. Save the program as Admission.cs.

1. Write a console-based program that prompts the user for an hourly pay rate and hours worked. Compute gross pay (hours times pay rate), withholding tax, and net pay (gross pay minus withholding tax). Withholding tax is computed as a percentage of gross pay based on the following:

|  |  |
| --- | --- |
| Gross Pay | Withholding Percentage |
| Up to and including 300.00 | 10% |
| 300.01 and up | 12% |

Save the program as Payroll.cs.