**Name: Session:**

**Programming II**

**Lab Exercise 2.10.2023**

**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 2.10.2023 Problem 1) and a sample output of your program run.**

1. Write a program containing an array that holds five integers. Assign values to the integers. Display the integers from first to last, and then display them from last to first. Save the program as IntegerList.cs.
2. Write a program for a package delivery service. The program contains an array that holds the ten zip codes to which the company delivers packages. Prompt a user to enter a zip code and display a message indicating whether the zip code is one to which the company delivers. Save the program as CheckZips.cs.
3. Write another program for the package delivery service in Exercise 2. The program should again use an array that holds the ten zip codes to which the company delivers packages. Create a parallel array containing ten delivery charges that differ for each zip code. Prompt a user to enter a zip code and then display either a message indicating the price of delivery to that zip code or a message indicating that the company does not deliver to the requested zip code. Save the program as DeliveryCharges.cs.
4. The Chat-A-While phone company provides service to six area codes and charges the per-minute rates for phone calls shown in the accompanying table.

|  |  |
| --- | --- |
| Area Code | Per-Minute Rate ($) |
| 262 | 0.07 |
| 414 | 0.10 |
| 608 | 0.05 |
| 715 | 0.16 |
| 815 | 0.24 |
| 920 | 0.14 |

Write a program that allows a user to enter an area code and the length of time for a call in minutes, then display the total cost of the call. Save the program as ChatAWhile.cs.