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Daffodil International University

Course Code: CSE113 | Course Title: Programming & Problem Solving
Section: 72_M | Time: 30 Minutes | Marks: 15
Quiz - 1

1. State the Course Outcomes (COs) of Programming and Problem Solving course and provide the mapping of the COs with the corresponding Program Outcomes (POs). **[5]**
2. Suppose you are developing a C program to assist a salesman in calculating the total sales amount. The salesman sells three products: honey, nuts, and black seed. Write a C program that reads the selling amount of each of these three products as input and calculates and displays the total amount that the customer needs to pay. **[5]**
   Input: The selling amounts of Honey, Nuts, and Black Seed.
   Output: The total amount payable by the customer with an appropriate message.

Sample Input	Sample Output
Honey Amount: 470 ① Nuts Amount: 230 ① Black Seeds Amount: 335 ①	Total Bill: 1035 ① calculation - ①
Honey Amount: 900 Nuts Amount: 0 Black Seeds Amount: 35	Total Bill: 935 input - 0.5 condition - 2 calculation - 1.5 output - 1

3. Assume a customer's monthly electricity consumption is recorded in units. Write a C program that reads the number of units consumed and calculates the electricity bill based on the following conditions: if the consumption is 100 units or less, the rate is 5 taka per unit; if the consumption is between 101 and 200 units, the rate is 7 taka per unit; otherwise, the rate is 10 taka per unit. The program should display the total electricity bill based on the applicable rate. **[5]**
   Input: No of units used by the user.
   Output: Bill amount with an appropriate message.

Sample Input	Sample Output
200	Electricity Bill: 1400
35	Electricity Bill: 175