

# Green University of Bangladesh

Time:1:00 hr

SSN

## Department of CSE Lab Final Examination, Fall 2023

Marks: 30

Course Code:  
CSE 304  
Section: 221 D15

1.	<p>Imagine you're tasked with creating an assembly language program to determine whether a given three-digit number is an Armstrong number or not. An Armstrong number is a number that is equal to the sum of its digits each raised to the power of the number of digits.</p> <p>Your task involves writing assembly code that accepts a three-digit number as input and checks whether it meets the Armstrong number criteria.</p>	10
2.	<p>You're tasked with creating an assembly language program to calculate the total cost of items in a shopping cart at a grocery store. The program should take the quantity and price per item as inputs and compute the total cost for a particular item type. ( Set the initial quantity and price per item for a product. Calculate the total cost for the product (quantity * price) and then show the result.)</p>	10
3.	<p>You're developing an assembly language program to verify whether a given string is a palindrome or not. Palindromes are sequences of characters that read the same forwards and backward when disregarding spaces, punctuation, and capitalization. So write a program that accepts a string of characters as input, verify if the entered string is a palindrome, and display a message indicating whether the string is a palindrome or not. You have to use <b>Macro</b> to solve the problem.</p>	10