

Lab Activities 08

1. Initialize an Array of 10 Indexes. **(Range 0~500)**
 - a. **Declare main procedure**
 - b. **Take 10 integers on respective indexes**
 - c. **Push values of Array in a Stack**
 - d. **Pop & Print each value on Console.**
2. Write a Procedure which takes 5 numbers as argument. Calculate sum of numbers and return the sum. Prints the sum in main procedure. You have to use Stack for Passing and Retrieving Arguments. **(Range 0~500)**
3. Write a procedure that takes an integer from the user and check whether input number is Armstrong or not. (Input range up to 500). An **Armstrong number** is an **n-digit number** that is equal to the sum of the nth powers of its digits. $3*3*3+7*7*7+1*1*1= 371$
4. Write a procedure, which Input String from the user. Ask two word from user; word1 and word2, if word1 found at a specific index of String == true. Replaces the contents of that index with word2 Else contents remain same in that index. Print Updated String.
5. Write a **Menu driven** assembly program which performs the following tasks. **(Range 0~500)**
 - a. **Procedure to search a given element in the array.**
 - b. **Procedure to sort the array in descending order.**
 - c. **Procedure to find the Maximum element of the array.**
 - d. **Procedure to count a given element in the array.**