

**Objectives:**

- C++ Programming Pointers
- C++ File name is **StudentID\_qNO.cpp**
- **Note:** Write comments in your code for explaining steps.
- **Note:** Pay attention to the indentations in your code.

**Question 1: Write a program that get an input from user for integer, float, char and string. Then write array elements to the screen. Operations should be written in accordance with dynamic memory allocation.**

**Sample output:**

Enter the value of integer: 5  
Enter the value of float: 5.5  
Enter the value of char: A  
Enter the value of string: AA

Values belonging to types:  
The value of integer: 5  
The value of float: 5.5  
The value of char: A  
The value of string: AA

**Question 2: Write a program that fill an array from 0 to size-1, and then write array elements to the screen. The array size has to get from user. Operations should be written in accordance with dynamic memory allocation.**

**Sample output:**

Enter the size of array: 5  
Array:  
0. element: 0  
1. element: 1  
2. element: 2  
3. element: 3  
4. element: 4

**Question 3: Write a program to insert a dash character (-) between two odd numbers in a given string of numbers.**

**Sample output:**

Input:123456789

Result-> 123456789

Input: 1345789

Result-> 1-345-789

Input: 34635323928477

Result-> 3463-5-323-92847-7

**Question 4: Write a program to check if a given string is a Palindrome or not. A palindrome is a word, number, phrase, or other sequence of characters which reads the same backward as forward, such as madam, racecar.**

**Sample outputs:**

Is **madam** a Palindrome?

True

Is **racecar** a Palindrome?

True

Is **abc** a Palindrome?

False