**Department of Computer Science & Engineering**

**Semester III**

**OOPs With C++(PCS-307)**

**Q1. Write a C++ program to create a class called StaticDemo and create following static member function.**

**static void trunckstr(string,int)🡺 truncate a string to a certain number of words.**

**Example**

**"The quick brown fox jumps over the lazy dog" , 4**

**Output :**

**The quick brown fox**

**static void pallindrome(string)🡺** **count and print number of palindrome in a passing string.**

**static void chopstr(int,string)🡺 chop a string into chunks of a given length.**

**Example:**

**2, "INFORMATION"**

**Output :**

**IN FO RM AT IO N**

**Example:**

**3, "INFORMATION"**

**Output :**

**INF ORM ATI ON**

**In main function invoke functions and perform the above task.**

**Q2. Write a C++ program to create a class called ArrayDemo and create following static function.**

**Static void arrayFunc1(int [], int, int) 🡺to find a pair of elements (indices of the two numbers) from an given array whose sum equals a specific target number.**

**Example**

**Array numbers= [10,20,10,40,50,60,70], size=7, target=50**

**Output: 3, 4**

**Static void arrayFunc2(int ar1[], int size ,int arr2[], int size2) 🡺 to merge two arrays and removes all duplicates elements.**

**Example**

**ar1= [1, 2, 3] , size=3 , ar2= [2, 30, 1] , size=3**

**Output:**

**[3, 2, 30, 1]**

**Q3. Write a C++ program to create a class called StaticDemo and with following static member functions.**

**static void numCal(int,char)🡺If passing character is ‘p’ then print square of passing number otherwise cube of a number**

**static void showValue(int,int,char)🡺If passing character is ‘a’ then print addition of numbers otherwise print Ascii value of a passing character.**

**static void equals(string,string)🡺Check whether passing strings are equal or not.**

**In main function invoke all static member functions and perform the above task.**