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

**Assignment8**

**Q1.Define a class named Test with following description:**

|  |  |
| --- | --- |
| **Data Members** |  |
| private int n1,n2,n3 |  |
| **Function** | **Description** |
| Void setvalue(int,int,int) | function will store value in n1, n2 and n3. |
| **Friend Function** | **Description** |
| void biggest(Test ob) | This friend function will find the biggest of three numbers (n1,n2 and n3) |

**Write a C++ program to find the biggest of three numbers using friend function.**

**Q 2. Define a class named UserOne with following description:**

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| --- | --- |
| **Data Members** | **Description** |
| string uname,pid | Person name and person id number |
| **Member Functions** | **Description** |
| void setdata(string,string) | This function will set value in uname and pid |
| **Friend Function** | **Description** |
| void userchecker(UserOne,UserTwo) | Compare data |

**Define another class named UserTwo with following description:**

|  |  |
| --- | --- |
| **Data Members** | **Description** |
| string uname,pid | Person name and person id number |
| **Member Functions** | **Description** |
| void setdata(string,string) | This function will set value in uname and pid |
| **Friend Function** | **Description** |
| void userchecker(UserOne,UserTwo) | Compare data |
| **Data Members** | **Description** |

**Write a C++ program to compare Name and Id of both classes using friend function. If name and id of both classes are equal then print the message “ Same Data”**

**otherwise print the message “Different Data”.**

**Q 3. Define a class named FriendDemo with following   
 description:**

|  |  |
| --- | --- |
| **Data Members** | **Description** |
| string str |  |
| **Member Functions** | **Description** |
| void setstr(string) | This function  **will assign a sentence into str.** |
| **Friend Class** | **Description** |
| friend class VowelCheck |  |

**Define another class named VowelCheck with following description:**

|  |  |
| --- | --- |
| **Member Functions** | **Description** |
| void maxVowel(FriendDemo) | **Display the word of the sentence that contains maximum number of vowels. Sample Input: HAPPY NEW YEAR Sample Output: The word with maximum number of vowels: YEAR** |
|  |  |