# Institute of Computer Technology

## B. Tech. Computer Science and Engineering

### Sub : ESFP – II

### Practical -10

**AIM:** To learn about Strings and Strings functions in C++.

1. Sanju wants to write a C++ program to check whether two characters present equally in a given string.
Example: 2 Characters are a,e
Input: aabcdeef
Output: True

2. A teacher has decided to make a c++ program to insert a dash character (-) between two odd numbers in a given string of numbers.
Example:
Sample Input: 1345789
Sample Output: Result-> 1-345-789

3. Write a program that takes your full name as input and displays the abbreviations of the first name, middle names and the last name in UPPERCASE only.
Expected input-Sachin Ramesh Tendulkar
Expected output-S R T

### Post Practical Task

1. Write an efficient program in C++ to check if two String is an anagram of each other. An anagram contains are of the same length and contains the same character, but in a different order, for example, "Army" and "Mary" is the anagram. Your program should return true if both Strings are the anagram, false otherwise.

2. What will be the output of the following C++ code?

```cpp
#include <iostream>
#include <cstring>
using namespace std;
int main ()
{
   char str1[10] = "Hello";
   char str2[10] = "World";
   char str3[10];
   int  len ;
   strcpy( str3, str1);
```

```
    strcat( str1, str2);
    len = strlen(str1);
    cout << len << endl;
    return 0;
  }
```

a) 5
b) 55
c) 11
d) 10

3. What will be the output of the following C++ code?

```
#include <iostream>
#include <string>
using namespace std;
int main ()
{
    string str ("nobody does like this");
    string key ("nobody");
    size_t f;
    f = str.rfind(key);
    if (f != string::npos)
        str.replace (f, key.length(), "everybody");
    cout << str << endl;
    return 0;
}
```
a) nobody does like this
b) nobody
c) everybody
d) everybody does like this

4. What will be the output of the following C++ code?
```
#include <iostream>
#include <string>
using namespace std;
int main() {
    string str {"Steve jobs"};
    cout << str.capacity() << "\n";    return 0;
}
```
a) 9
b) 10
c) 11
d) Not Fix