Delegates, Functions and Event Handlers Assignment
- Submitted by (Kavita Goodwani INT 438)

1. Create a C# Program to Implement event handling.

   a)   Write a publisher class named as Calculator which defines an event.

   b)   Ask user input for 2 numbers and wait for him to enter key "Enter".

   c)   If the user presses enter key button, execute a subscriber function which takes 2 integers as inputs and returns the sum.

   d)   Pass the 2 arguments as data to eventhandler.

   Solution :

   Console Application Attached : Sum_Event

2. Implement the concept of multi cast delegation in C# using below example.

   a)   Write 2 functions which take 2 strings as input parameters.

   b)   Define a property of type string in the class.

   c)   Inside the 2 functions, concatenate the string property to the longest of the two strings.

   d)   Declare a delegate and multicast the 2 functions to delegate.

   e)   Take input from users and invoke the delegate.

Solution: File Attached : Multicast_Delegates

```
Enter String 1:
Kavita
Enter String 2:
Goodwani
Value of string : GoodwaniKavita Goodwani
```

3. Implement the concept of callback function using delegation in C#. (With your own example).

File_attached : Callbacks

```
Task has been initiated
Task has been completed
```