```
1.
class Program
  static void Main()
    string file1 = "C:\\Users\\subramaniya.k\\Downloads\\file1.txt";
    string file2 = "C:\\Users\\subramaniya.k\\Downloads\\file2.txt";
    Thread thread1 = new Thread(() => ReadFile(file1));
    Thread thread2 = new Thread(() => ReadFile(file2));
    thread1.Start();
    thread2.Start();
    thread1.Join();
    thread2.Join();
    Console.WriteLine("Both files have been read.");
  }
  static void ReadFile(string filename)
  {
    try
       string content = File.ReadAllText(filename);
       Console.WriteLine($"Contents of {filename}:\n{content}\n");
    catch (Exception ex)
       Console.WriteLine($"Error reading {filename}: {ex.Message}");
  }
 Microsoft Visual Studio Debug Console
Contents of C:\Users\subramaniya.k\Downloads\file1.txt:
Helloo Bro
Contents of C:\Users\subramaniya.k\Downloads\file2.txt:
HIII bro
Both files have been read.
```

```
2.
class Program
  static async Task Main()
     string file1 = "C:\\Users\\subramaniya.k\\Downloads\\file1.txt";
     string file2 = "C:\\Users\\subramaniya.k\\Downloads\\file2.txt";
     Task<string> readFile1Task = ReadFileAsync(file1);
     Task<string> readFile2Task = ReadFileAsync(file2);
     string[] results = await Task.WhenAll(readFile1Task, readFile2Task);
     Console.WriteLine($"Contents of {file1}:\n{results[0]}\n");
     Console.WriteLine($"Contents of {file2}:\n{results[1]}\n");
     Console.WriteLine("Both files have been read asynchronously.");
  }
  static async Task<string> ReadFileAsync(string filename)
    try
       using (StreamReader reader = new StreamReader(filename))
       {
         string content = await reader.ReadToEndAsync();
         return content;
       }
    catch (Exception ex)
       return $"Error reading {filename}: {ex.Message}";
  }
}
 Microsoft Visual Studio Debug Console
Contents of C:\Users\subramaniya.k\Downloads\file1.txt:
Helloo Bro
Contents of C:\Users\subramaniya.k\Downloads\file2.txt:
HIII bro
Both files have been read asynchronously.
```

3.

Teacher.cs

```
namespace Delegate
{
    public class Teacher
    {
        public Student std;
        public Teacher()
        {
            std = new Student(Test_Completed);
        }
        public void Test_Completed(string sMsg)
        {
                Console.WriteLine("Student Test Status :"+sMsg);
        }
    }
}
```

Student.cs

```
namespace Delegate
{
    public class Student
    {
        public delegate void pass_info(string msg);
        public pass_info pass_info_dele;

        public Student (pass_info pass_info_dele)
        {
            this.pass_info_dele = pass_info_dele;
        }

        public void WriteTest()
        {
            pass_info_dele("Completed");
        }
    }
}
```

Program.cs

```
namespace Delegate
{
    public class Program
    {
        static void Main(string[] args)
        {
            Teacher teacher = new Teacher();
            teacher.std.WriteTest();
        }
    }
}
```

Output

Microsoft Visual Studio Debug Console

Student Test Status :Completed