## Day 4 Dharunya S

## Create two threads to read two separate text files

```
namespace DailyTaskThread;
class program
{
  static void Main()
     string filepath = @"D:\Training\Phase 2\new.txt";
     string filepath2 = @"D:\\Training\\Phase 2\\new2.txt";
     Thread file1 = new Thread(() => ReadFile(filepath));
     Thread file2 = new Thread(() => ReadFile(filepath2));
     file1.Start();
     file2.Start();
     file1.Join();
     file2.Join();
     Console.WriteLine("Finished reading files using Threads.\n");
     static void ReadFile(string fileName)
       string content = File.ReadAllText(fileName);
       Console.WriteLine($"Thread reading {fileName}:");
       Console.WriteLine(content);
    }
  }
Output:
Thread reading D:\Training\Phase 2\new.txt:
Hello world
Thread reading D:\\Training\\Phase 2\\new2.txt:
Hello world
2. Same two files, try to read using the Task Async await.
namespace DailyTaskAsync
{
  class Program
```

```
{
    static async Task Main()
       string filepath1 = @"D:\Training\Phase 2\new.txt";
       string filepath2 = @"D:\Training\Phase 2\new2.txt";
       Task task1 = ReadFileAsync(filepath1);
       Task task2 = ReadFileAsync(filepath2);
       await Task.WhenAll(task1, task2);
       Console.WriteLine("Finished reading files using async/await.\n");
    }
    static async Task ReadFileAsync(string fileName)
       string content = await File.ReadAllTextAsync(fileName);
       Console.WriteLine($"Async reading {fileName}:");
       Console.WriteLine(content);
    }
  }
Output:
Async reading D:\Training\Phase 2\new2.txt:
Hello world
Async reading D:\Training\Phase 2\new.txt:
Hello world
Finished reading files using async/await.
3. Create delegate use case between teacher class and student class:
       - teacher method should have test_completed() method passed as delegate to
student
       - student class should have a method write_test() which will inturn call the parent
delegate.
namespace DailytaskDele;
  class Program
  public delegate void TestCompletedDelegate();
```

static void Main(string[] args)

Teacher teacher = new Teacher();

```
Student student = new Student();
    student.WriteTest(teacher.TestCompleted);
  }
}
class Teacher
  public void TestCompleted()
  {
    Console.WriteLine("Student has completed test notified to teacher.");
}
class Student
  public void WriteTest(Program.TestCompletedDelegate notifyTeacher)
    Console.WriteLine("Student writing the test");
    Console.WriteLine("Test completed by student ");
     notifyTeacher();
  }
}
```

## OutPut:

Student writing the test
Test completed by student
Student has completed test notified to teacher.