

Hi Aseel, this is Question 1:

The image shows a development environment with Visual Studio and Notepad. In Visual Studio, the file `Program.cs` is open, showing the following C# code:

```
1 using System;
2 using System.IO;
3 public class CountWordsInFile
4 {
5     public static void Main(string[] args)
6     {
7         string fileName = @"C:\Users\DEV\Desktop\input.txt";
8         string line;
9         int wordsCount = 0;
10
11         try
12         {
13             using (StreamReader file = File.OpenText(fileName))
14             {
15                 do
16                 {
17                     line = file.ReadLine();
18                     if (line != null)
19                     {
20                         wordsCount += line.Split(' ').Length; // will count every words without spaces
21                     }
22                 } while (line != null);
23             }
24             Console.WriteLine(wordsCount);
25         }
26         catch (IOException e)
27         {
28             Console.WriteLine("Error Message:" + e.Message);
29         }
30     }
31 }
32
33
34
```

The code is a static class `CountWordsInFile` with a `Main` method that reads a file `input.txt` and counts the number of words in each line. The words are counted by splitting the line on spaces and summing the lengths of the resulting array elements.

The `input.txt` file, opened in Notepad, contains the following text:

```
1 2 3 4 5
```

The Visual Studio Output window shows the following output:

```
1>WordCount -> C:\Users\DEV\source\repos\WordCount\WordCount\bin\Debug\netcoreapp3.1\WordCount.dll
===== Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped =====
```

The Visual Studio Debug Console shows the following output:

```
5
C:\Users\DEV\source\repos\WordCount\WordCount\bin\Debug\netcoreapp3.1\WordCount.exe (process 16756) exited with code 0.
Press any key to close this window . . .
```

The Visual Studio status bar at the bottom indicates "Build succeeded".

Question 2:

The image shows a development environment with Visual Studio and Windows File Explorer. The Visual Studio window displays a C# program named `reverse` in the `Program.cs` file. The program defines a `ReverseText` class with a `Main` method that reads a text file, reverses its contents, and writes the result to a new file.

```
1 using System;
2 using System.IO;
3 public class ReverseText
4 {
5     public static void Main(string[] args)
6     {
7         string fileName = @"C:\Users\DEV\Desktop\task3\test.txt";
8         string copyFileName = @"C:\Users\DEV\Desktop\task3\testCopy.inv";
9
10        string[] arr = {"A", "B", "C", "D"};
11
12        try
13        {
14            using (StreamWriter streamWriter = new StreamWriter(fileName))
15            {
16                foreach (var item in arr)
17                {
18                    streamWriter.WriteLine(item);
19                }
20            }
21
22            File.Copy(fileName, copyFileName, true);
23            string[] lines = File.ReadAllLines(fileName);
24
25            Array.Reverse(lines);
26
27            using (StreamWriter writer = File.CreateText(copyFileName))
28            {
29                foreach(string item in lines)
30                {
31                    writer.WriteLine(item);
32                }
33            }
34
35            Console.WriteLine("Done");
36        }
37        catch (IOException e)
38        {
39            Console.WriteLine(e.Message);
40        }
41    }
42 }
43
```

The Windows File Explorer window shows the `task3` folder on the Desktop. It contains three items: `.vs` (File folder), `test` (Text Document), and `testCopy` (INV File).

The `test` Notepad window shows the original content of the file:

```
A
B
C
D
```

The `testCopy` Notepad window shows the reversed content of the file:

```
D
C
B
A
```

The Microsoft Visual Studio Debug Console shows the output of the program:

```
Done
C:\Users\DEV\source\repos\reverse\reverse\bin\Debug\netcoreapp3.1\reverse.exe (process 10012) exited with code 0.
Press any key to close this window . . .
```

The Output window shows the build output:

```
1>reverse -> C:\Users\DEV\source\repos\reverse\reverse\bin\Debug\netcoreapp3.1\reverse.dll
===== Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped =====
```

Question 3:

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q)

Debug Any CPU toLower Live Share

Program.cs toLower ToLower Main(string[] args)

```
5 public static void Main(string[] args)
6 {
7     string fileName = @"C:\Users\DEV\Desktop\task3\toLower\Upper.txt";
8     string copyFileName = @"C:\Users\DEV\Desktop\task3\toLower\toLowerCopy.txt";
9
10    string[] arr = { "HI ASEEL, I'M ABDULKAREEM" };
11
12    try
13    {
14        using (StreamWriter streamWriter = new StreamWriter(fileName))
15        {
16            foreach (var item in arr)
17            {
18                streamWriter.WriteLine(item);
19            }
20
21            File.Copy(fileName, copyFileName, true);
22            string[] lines = File.ReadAllLines(fileName);
23
24            using (StreamWriter writer = File.CreateText(copyFileName))
25            {
26                foreach (string item in lines)
27                {
28                    writer.WriteLine(item.ToLower());
29                }
30
31                Console.WriteLine("Done");
32            }
33
34            catch (IOException e)
35            {
36                Console.WriteLine("Error Message:" + e.Message);
37            }
38
39        }
40
41    }
42
43    }
```

107 % No issues found Ln: 27 Ch: 13 SPC CRLF

Output

Show output from: Build

1>toLower -> C:\Users\DEV\source\repos\toLower\toLower\bin\Debug\netcoreapp3.1\toLower.dll
===== Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped =====

Error List Output

Build succeeded

Add to Source Control

toLower

task3 > toLower

Quick access Desktop Downloads Documents Pictures

Name	Date modified	Type	Size
.vs	8/8/2021 5:55 PM	File folder	
toLowerCopy	8/8/2021 6:08 PM	Text Document	1 KB
Upper	8/8/2021 6:08 PM	Text Document	1 KB

3 items 1 item selected 27 bytes

Upper - Notepad

File Edit Format View Help

HI ASEEL, I'M ABDULKAREEM

toLowerCopy - Notepad

File Edit Format View Help

hi aseel, i'm abduLKareem

Microsoft Visual Studio Debug Console

Done

C:\Users\DEV\source\repos\toLower\toLower\bin\Debug\netcoreapp3.1\toLower.
Press any key to close this window . . .

36°C Sunny 6:09 PM 8/8/2021