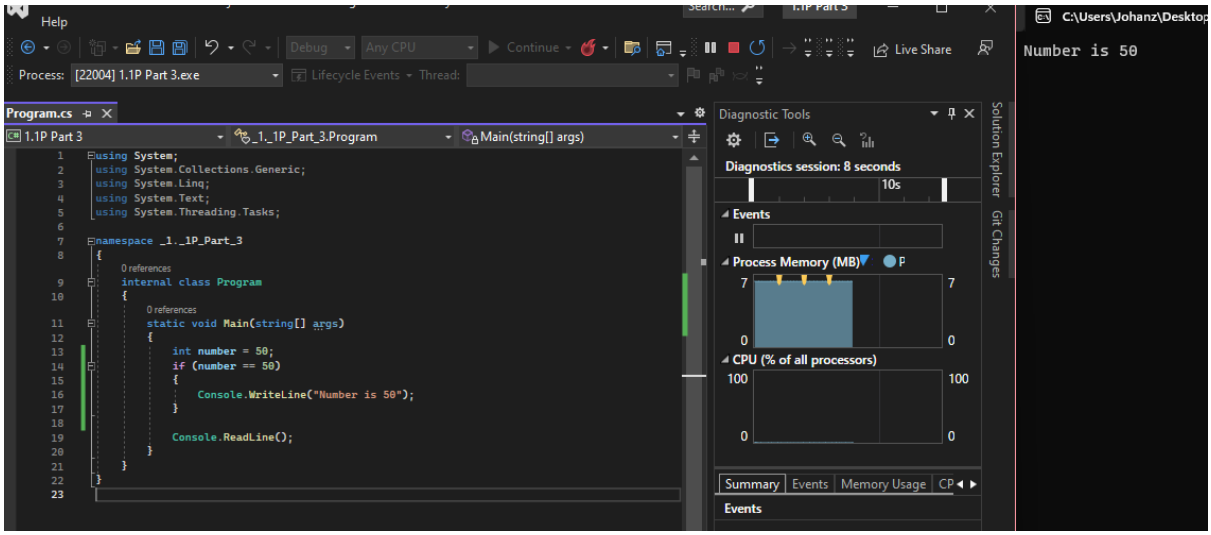
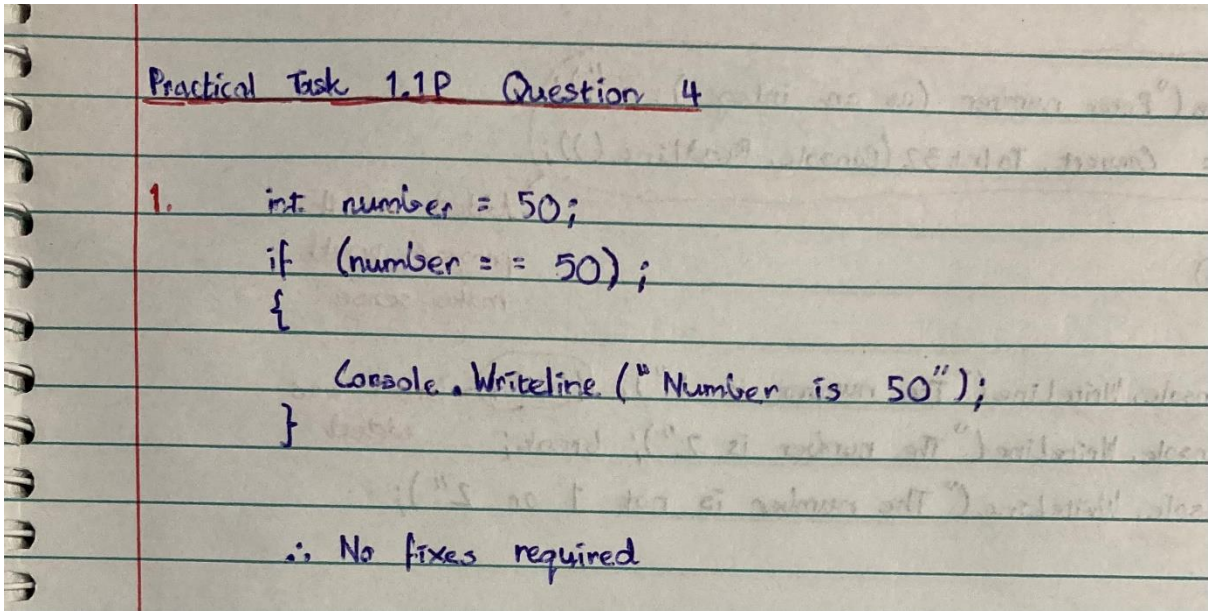
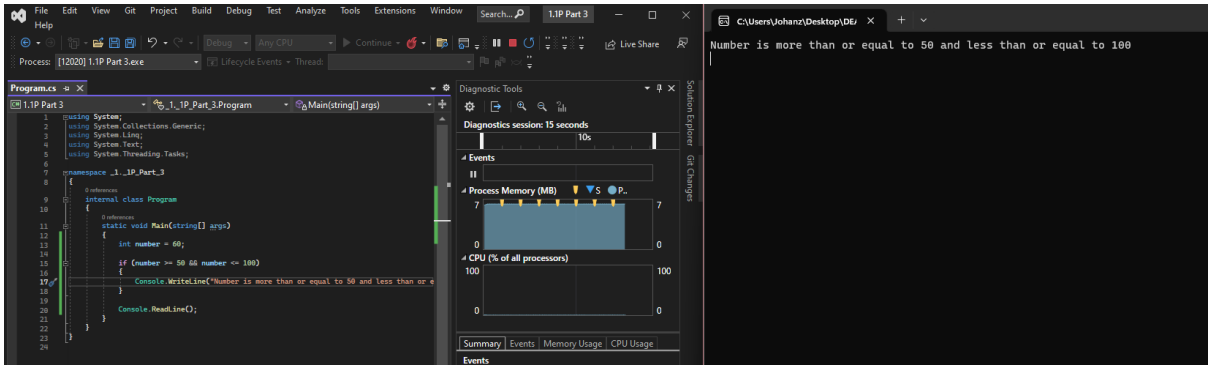
3. Find all existing issues with the code snippets presented below. It is highly important to try working this out on paper by tracing through the statements and then input the code into your IDE. Run it to see if you are correct, and then see if you can fix the code.

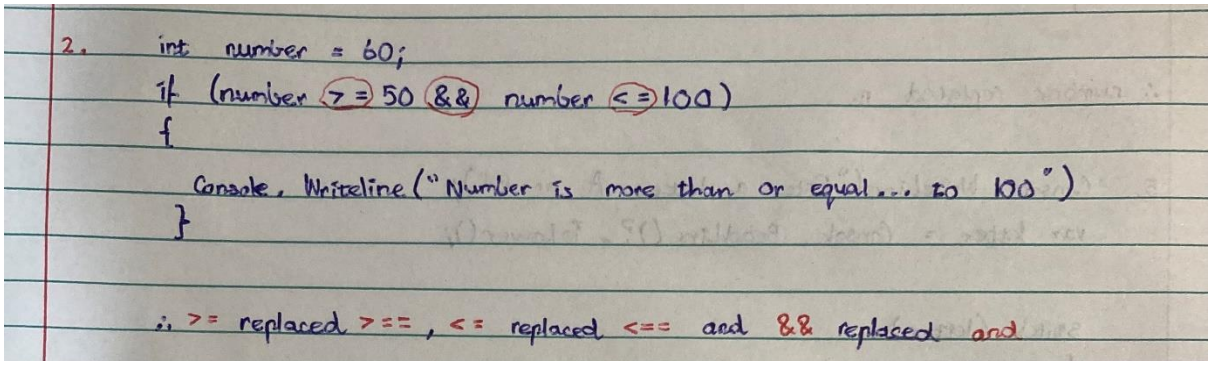
a)



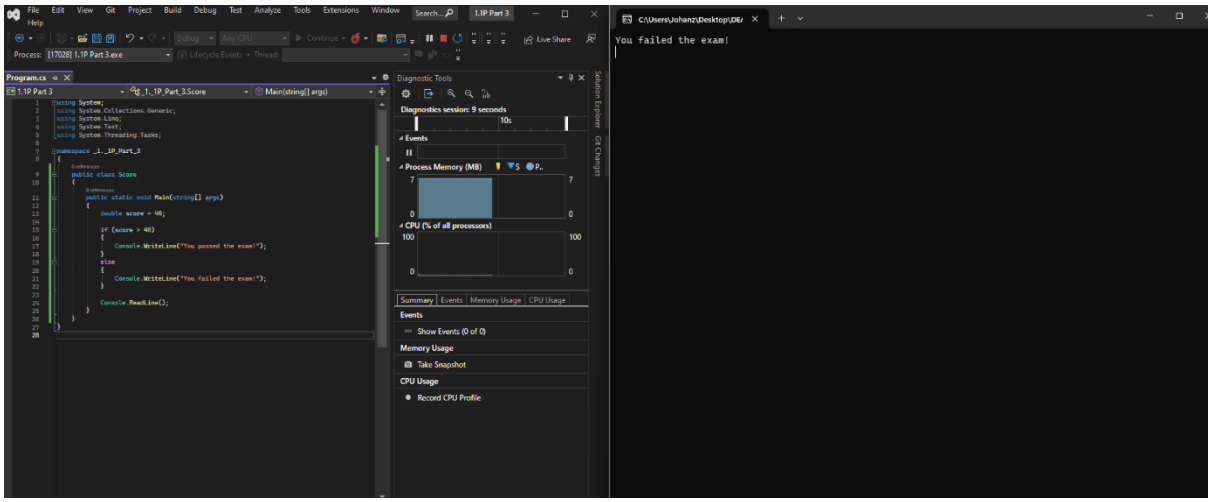


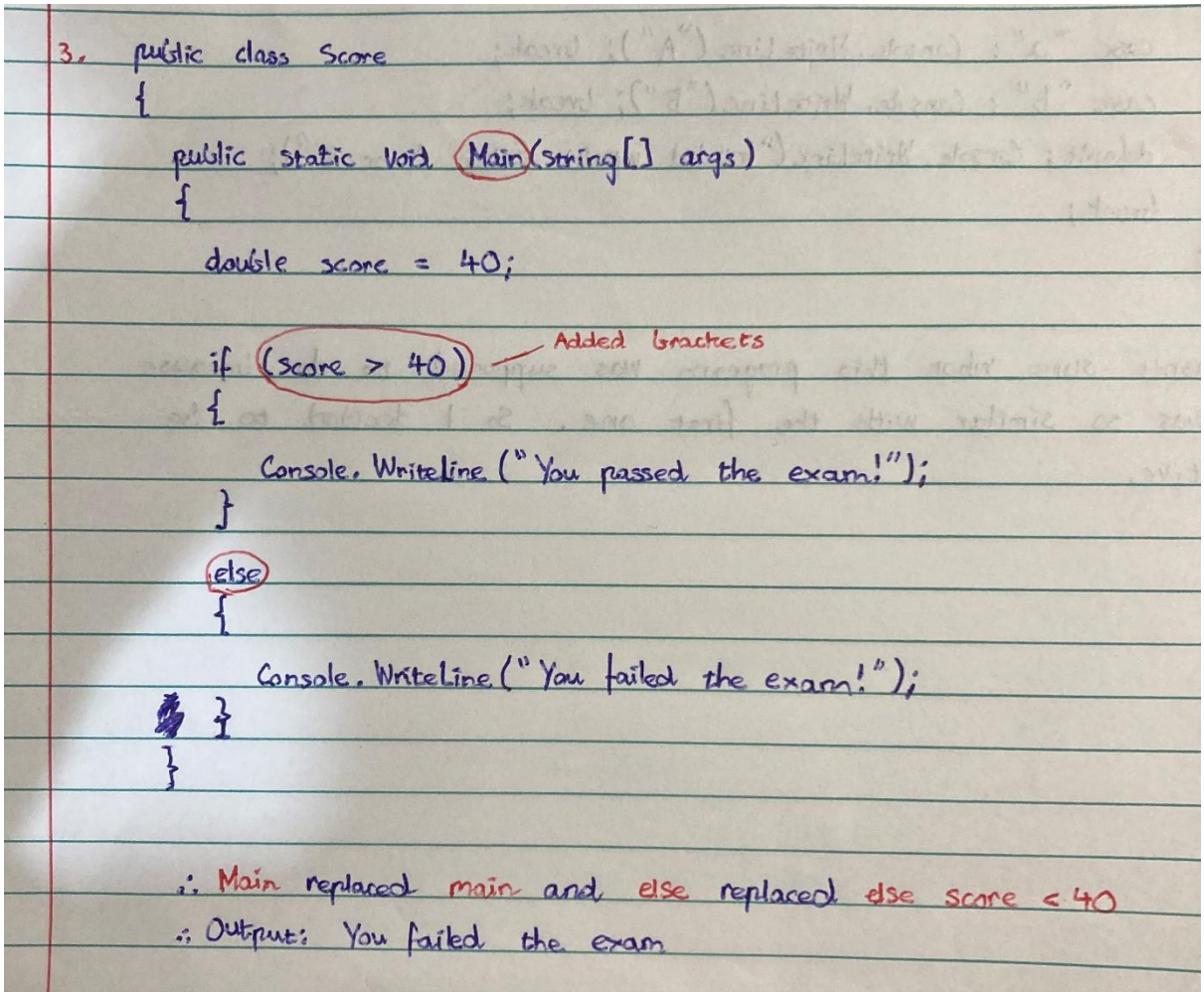
b)


Number is more than or equal to 50 and less than or equal to 100

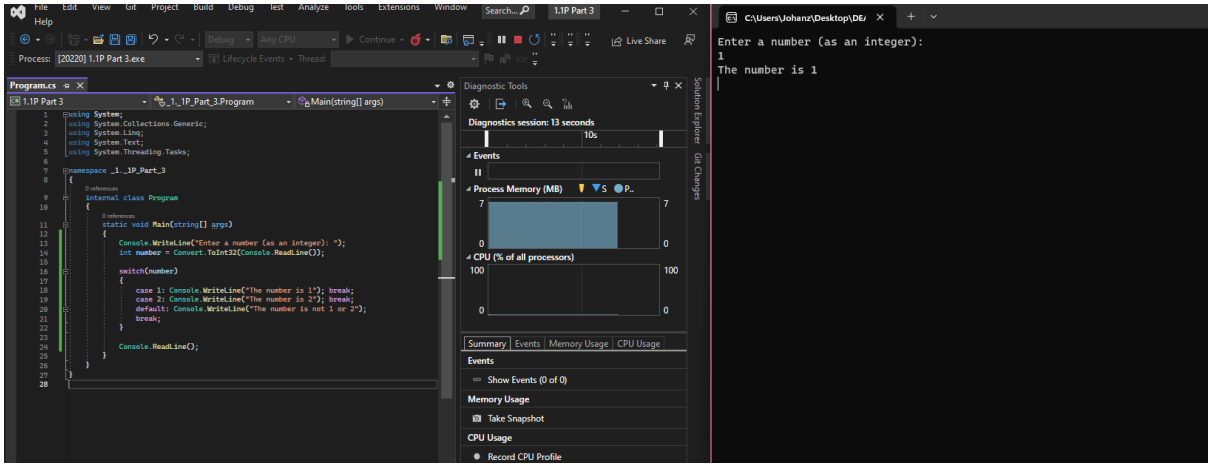

2.
int number = 60;
if (number >= 50 && number <= 100)
{
Console.WriteLine("Number is more than or equal... to 100")
}
:, >= replaced >==, <= replaced <== and && replaced and

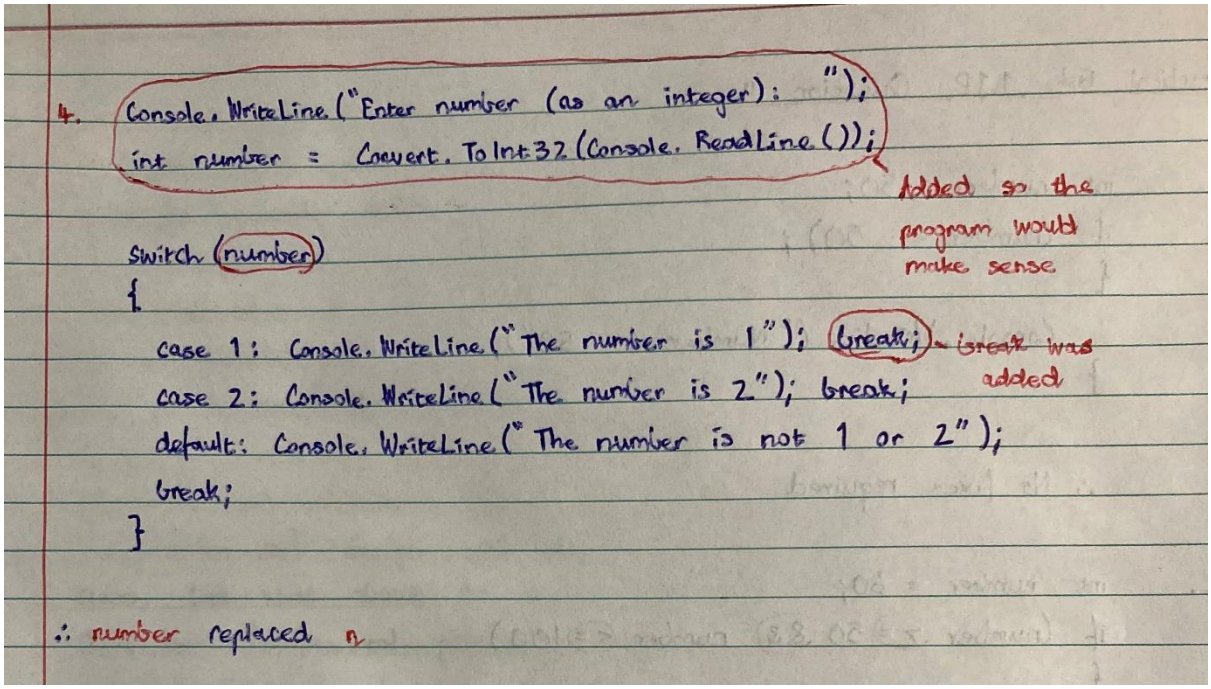
c)


You failed the exam!

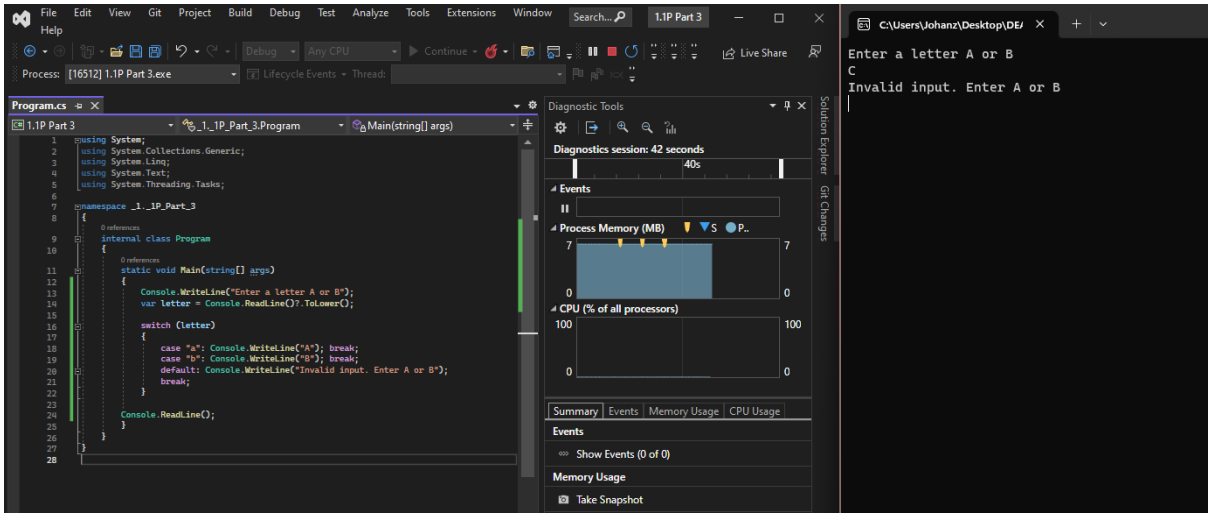

3.
public class Score
{
public static void Main(string[] args)
{
double score = 40;
if (score > 40)
Added brackets
{
Console.WriteLine("You passed the exam!");
}
else
{
Console.WriteLine("You failed the exam!");
}
}
∴ Main replaced main and else replaced else score < 40
∴ Output: You failed the exam

d)


Enter a number (as an integer):
1
The number is 1


4. Console.WriteLine("Enter number (as an integer): ");
int number = Convert.ToInt32(Console.ReadLine());
Added so the program would make sense
switch (number)
{
case 1: Console.WriteLine("The number is 1"); break;
break was added
case 2: Console.WriteLine("The number is 2"); break;
default: Console.WriteLine("The number is not 1 or 2");
break;
}
∴ number replaced n

e)


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search...
1.1P Part 3
Debug
Any CPU
Continue
Live Share
Process: [16512] 1.1P Part 3.exe
Lifecycle Events
Thread:
Program.cs
1.1P Part 3
_1._1P_Part_3.Program
Main(string[] args)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _1._1P_Part_3
{
0 references
internal class Program
{
0 references
static void Main(string[] args)
{
Console.WriteLine("Enter a letter A or B");
var letter = Console.ReadLine()?.ToLower();
switch (letter)
{
case "a": Console.WriteLine("A"); break;
case "b": Console.WriteLine("B"); break;
default: Console.WriteLine("Invalid input. Enter A or B");
break;
}
Console.ReadLine();
}
}
}
Diagnostic Tools
Diagnostics session: 42 seconds
40s
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Events
Show Events (0 of 0)
Memory Usage
Take Snapshot
Solution Explorer
Git Changes
C:\Users\Johanz\Desktop\DE/
Enter a letter A or B
C
Invalid input. Enter A or B

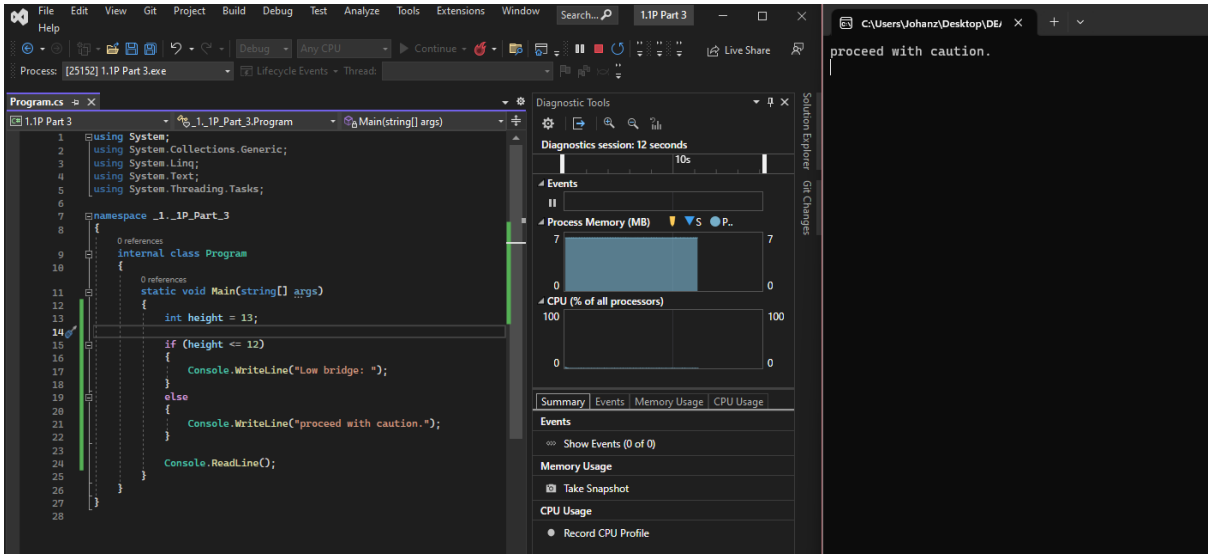
```
5. Console.WriteLine("Enter a letter A or B");
   var letter = Console.ReadLine()?.ToLower();

   switch (letter)
   {
       case "a": Console.WriteLine("A"); break;
       case "b": Console.WriteLine("B"); break;
       default: Console.WriteLine("Invalid input. Enter A or B");
       break;
   }
```

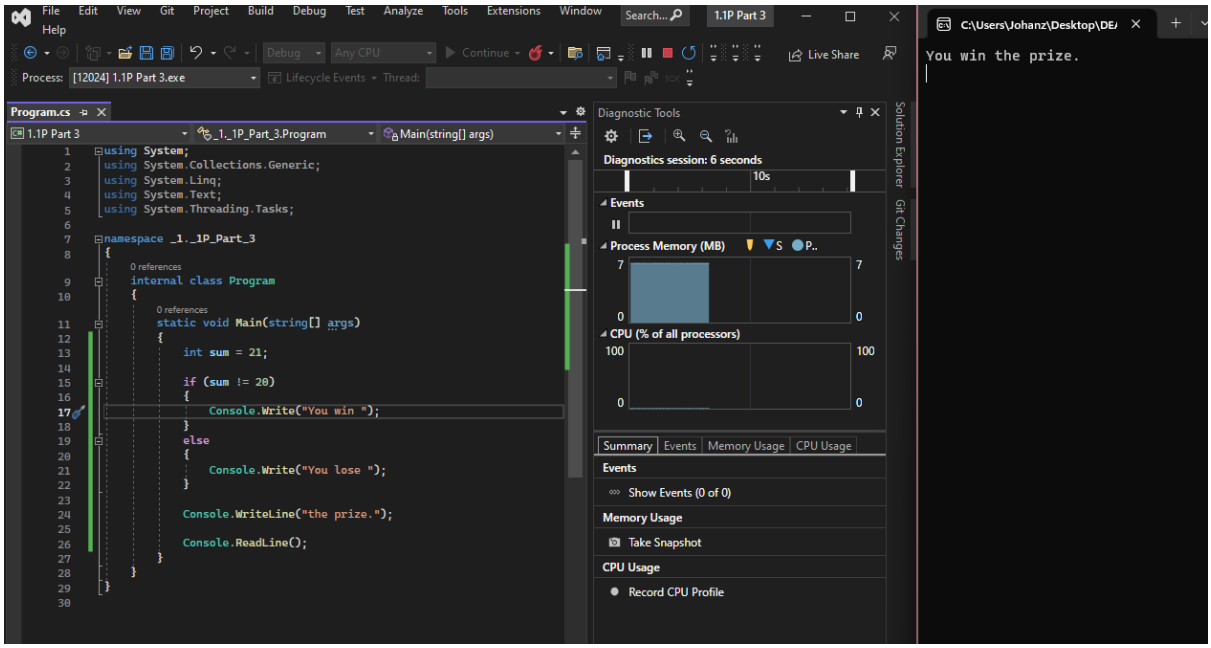
;; I wasn't sure what this program was supposed to do because it was so similar with the first one. So I decided to be creative.

4. What is the output of the following code fragments? Remember to try working this out on paper by tracing through the statements and then input the code into your IDE. Run it to see if you are correct, and then see if you can fix the code.

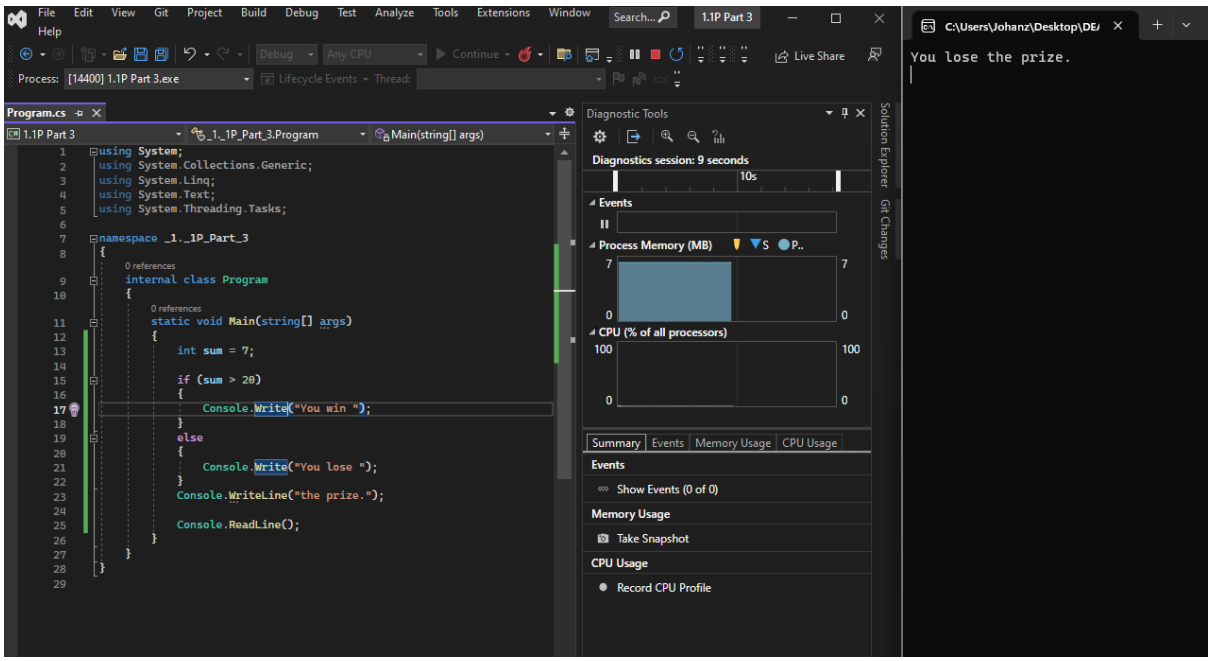
a)



b)


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search...
1.1P Part 3
Debug
Any CPU
Continue
Live Share
Process: [12024] 1.1P Part 3.exe
Lifecycle Events
Thread:
Program.cs
1.1P Part 3
_1._1P_Part_3.Program
Main(string[] args)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _1._1P_Part_3
{
0 references
internal class Program
{
0 references
static void Main(string[] args)
{
int sum = 21;
if (sum != 20)
{
Console.Write("You win ");
}
else
{
Console.Write("You lose ");
}
Console.WriteLine("the prize.");
Console.ReadLine();
}
}
}
Diagnostic Tools
Diagnostics session: 6 seconds
10s
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Record CPU Profile
Solution Explorer
Git Changes
C:\Users\Johanz\Desktop\DE
You win the prize.

c)


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search...
1.1P Part 3
Debug
Any CPU
Continue
Live Share
Process: [14400] 1.1P Part 3.exe
Lifecycle Events
Thread:
Program.cs
1.1P Part 3
_1._1P_Part_3.Program
Main(string[] args)
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace _1._1P_Part_3
{
0 references
internal class Program
{
0 references
static void Main(string[] args)
{
int sum = 7;
if (sum > 20)
{
Console.Write("You win ");
}
else
{
Console.Write("You lose ");
}
Console.WriteLine("the prize.");
Console.ReadLine();
}
}
}
Diagnostic Tools
Diagnostics session: 9 seconds
10s
Events
Process Memory (MB)
CPU (% of all processors)
Summary
Events
Memory Usage
CPU Usage
Show Events (0 of 0)
Take Snapshot
Record CPU Profile
Solution Explorer
Git Changes
C:\Users\Johanz\Desktop\DE
You lose the prize.