

I used Visual studio 2022

Templates:

Question 1: WCF Service Application

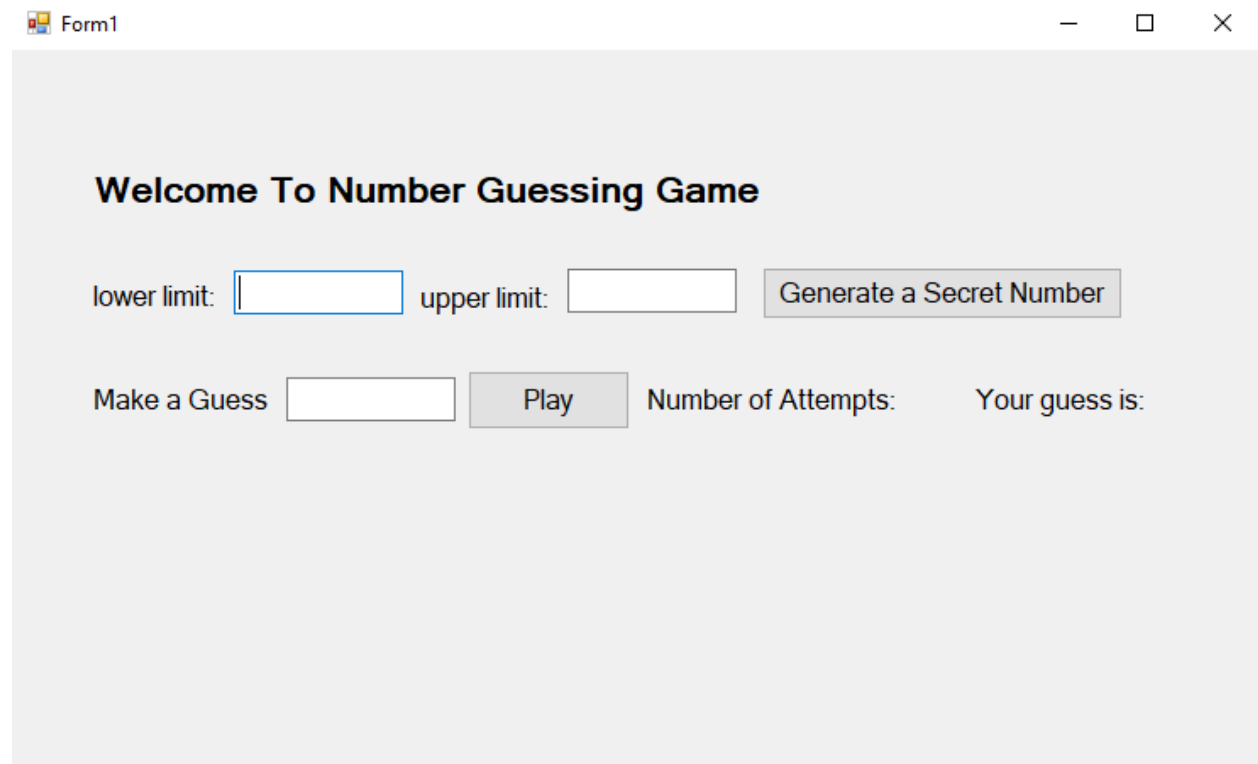
Question 2: Windows Forms App (.NET Framework)

Question 3: Console App (.NET Framework)

Question 4: Console App (.NET Framework)

Images of testing results:

Question 2;



The screenshot shows a Windows Forms application window titled 'Form1'. The window contains a title bar with standard minimize, maximize, and close buttons. The main content area has a light gray background and displays the text 'Welcome To Number Guessing Game' in a bold, black font. Below the title, there are two input fields for 'lower limit' and 'upper limit', each followed by a 'Generate a Secret Number' button. Further down, there is a 'Make a Guess' label followed by an input field, a 'Play' button, and labels for 'Number of Attempts:' and 'Your guess:'. The interface is clean and uses a simple, modern design.

Form1

Welcome To Number Guessing Game

lower limit: upper limit:

Make a Guess Number of Attempts: 2 Your guess is correct

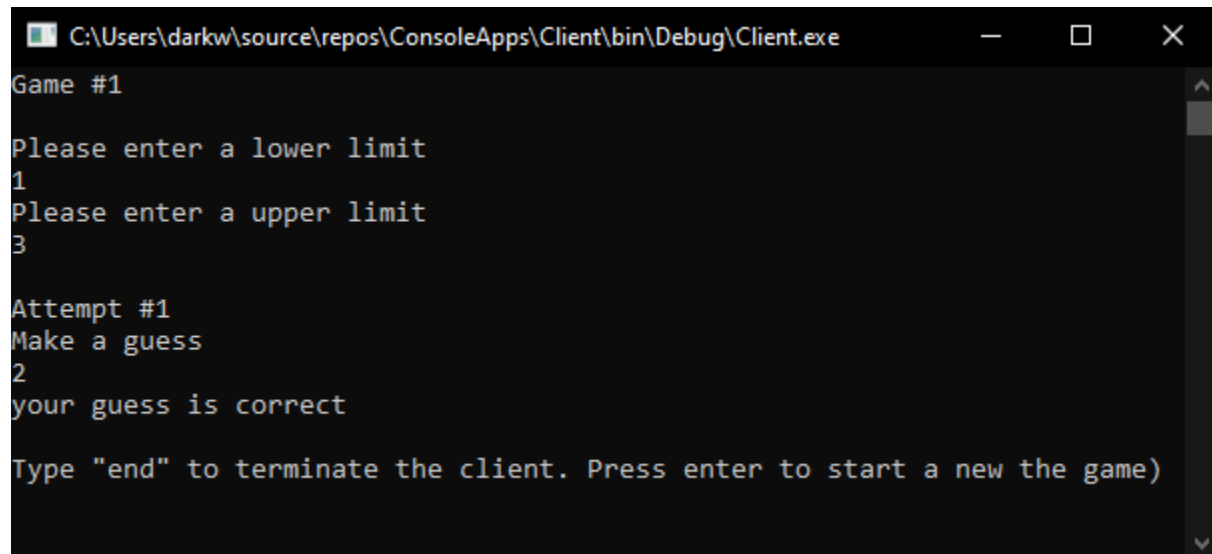
Question 3:

Self-hosting service

```
C:\WINDOWS\system32\cmd.exe
myService developed is ready to take requests. Please create a client to play my number guessing game.
If you want to quit this service, simply press <ENTER>.
```

Question 4:

console application to call the self-hosting service:



```
C:\Users\darkw\source\repos\ConsoleApps\Client\bin\Debug\Client.exe
Game #1
Please enter a lower limit
1
Please enter a upper limit
3
Attempt #1
Make a guess
2
your guess is correct
Type "end" to terminate the client. Press enter to start a new the game)
```

```
C:\Users\darkw\source\repos\ConsoleApps\Client\bin\Debug\Client.exe
Game #1
Please enter a lower limit
asd
Please enter an integer value as the lower limit
3
Please enter a upper limit
asd
Please enter an integer value as the upper limit
1
The lower limit cant be higher than the upper limit. Please choose different values.
Please enter a lower limit
1
Please enter a upper limit
3
Attempt #1
Make a guess
2
your guess is correct
Type "end" to terminate the client. Press enter to start a new the game)

Game #2
Please enter a lower limit
1
Please enter a upper limit
3
Attempt #1
Make a guess
2
your guess is too big
Attempt #2
Make a guess
1
your guess is correct
Type "end" to terminate the client. Press enter to start a new the game)
```