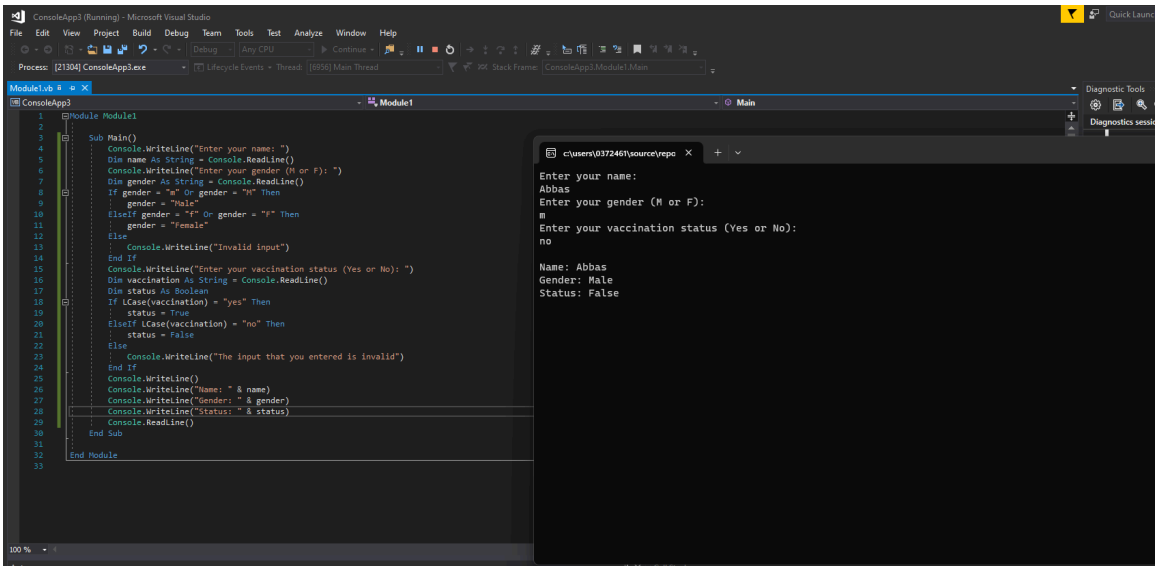
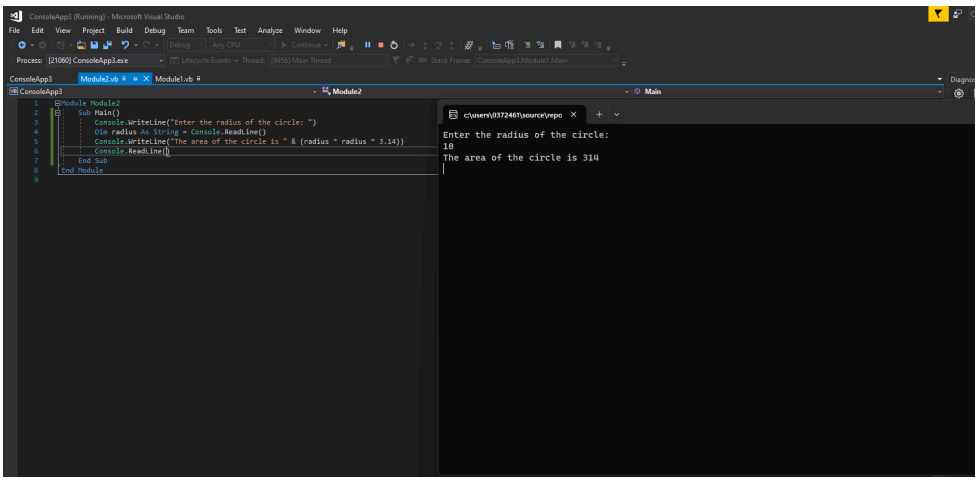
1. Write a program that will request the user to enter their name, gender(M/F) and if the they are vaccinated status(Yes/No).
   The program will then output the name, gender and True(if answer is Yes for vaccinated) or False(if answer is No for vaccinated) for vaccinated status.

   Note : Use string data type for name, Character data type for gender, Boolean data type for vaccinated)

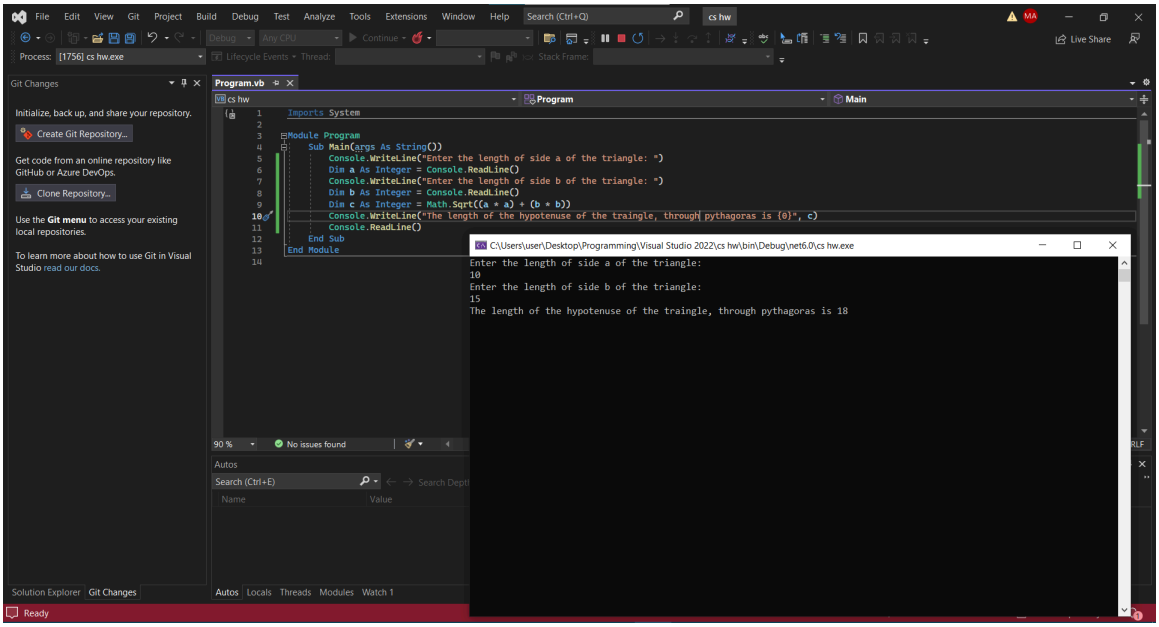


2. Write a program to calculate the total area of a circle. The program will ask the user to enter the Radius of the circle.
   Formula :Area = Pi * Radius * Radius , Pi = 3.14159

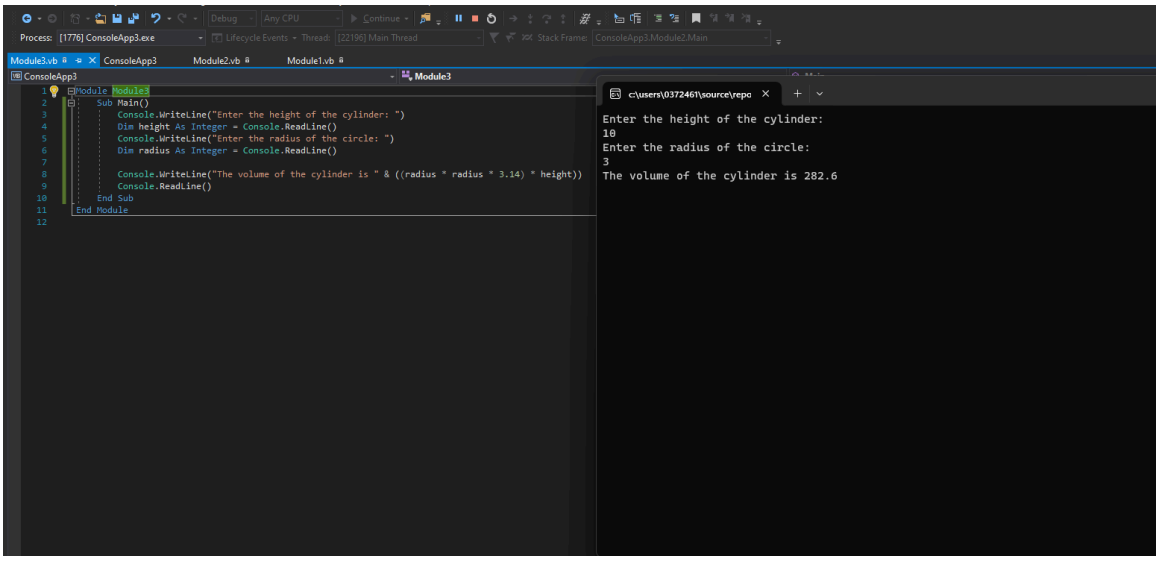
   Note : Use Integer data type for Radius, Real data type for Area



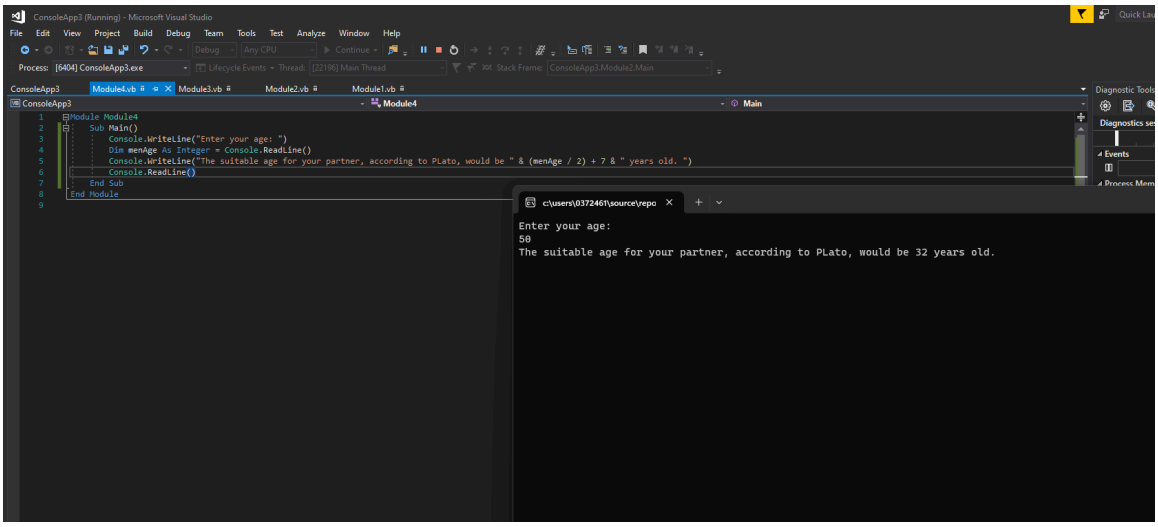
2. Write a program to calculate the hypotenuse of the right triangle. Ask the user to input the 2 sides.



3. Write a program to calculate the volume of a cylinder.



4. According to Plato, a man should marry a woman whose age is half his age plus seven years. Write a program that requests a man's age as input and gives the ideal age of his wife.



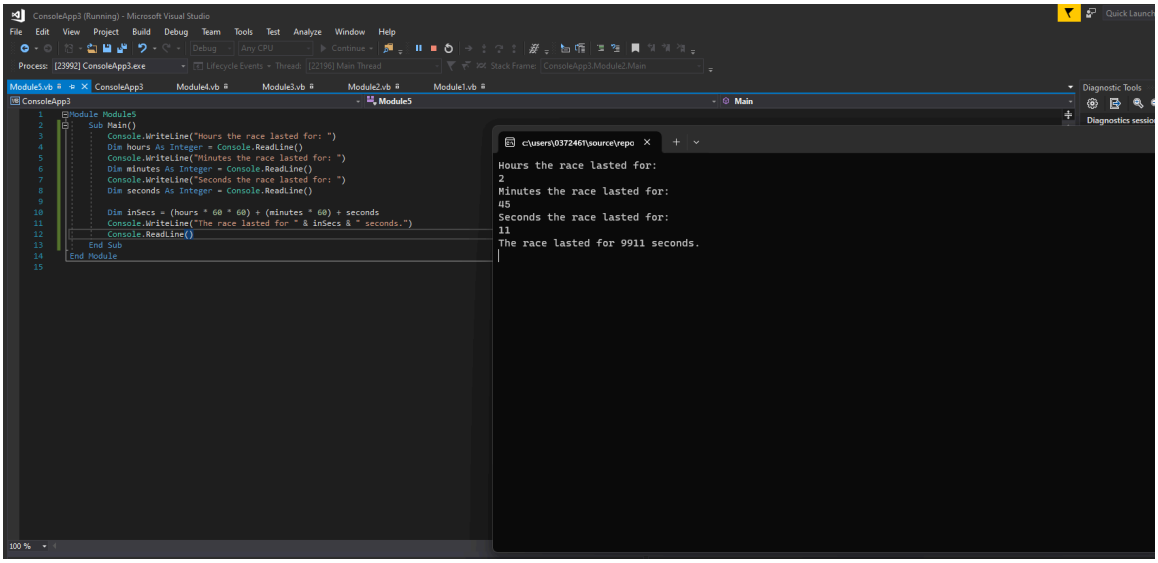
5 (a) A marathon runner records their time for a race in hours, minutes and seconds. An algorithm is shown below in structured English.

INPUT race time as hours, minutes and seconds

CALCULATE race time in seconds

STORE race time in seconds

OUTPUT race time in seconds



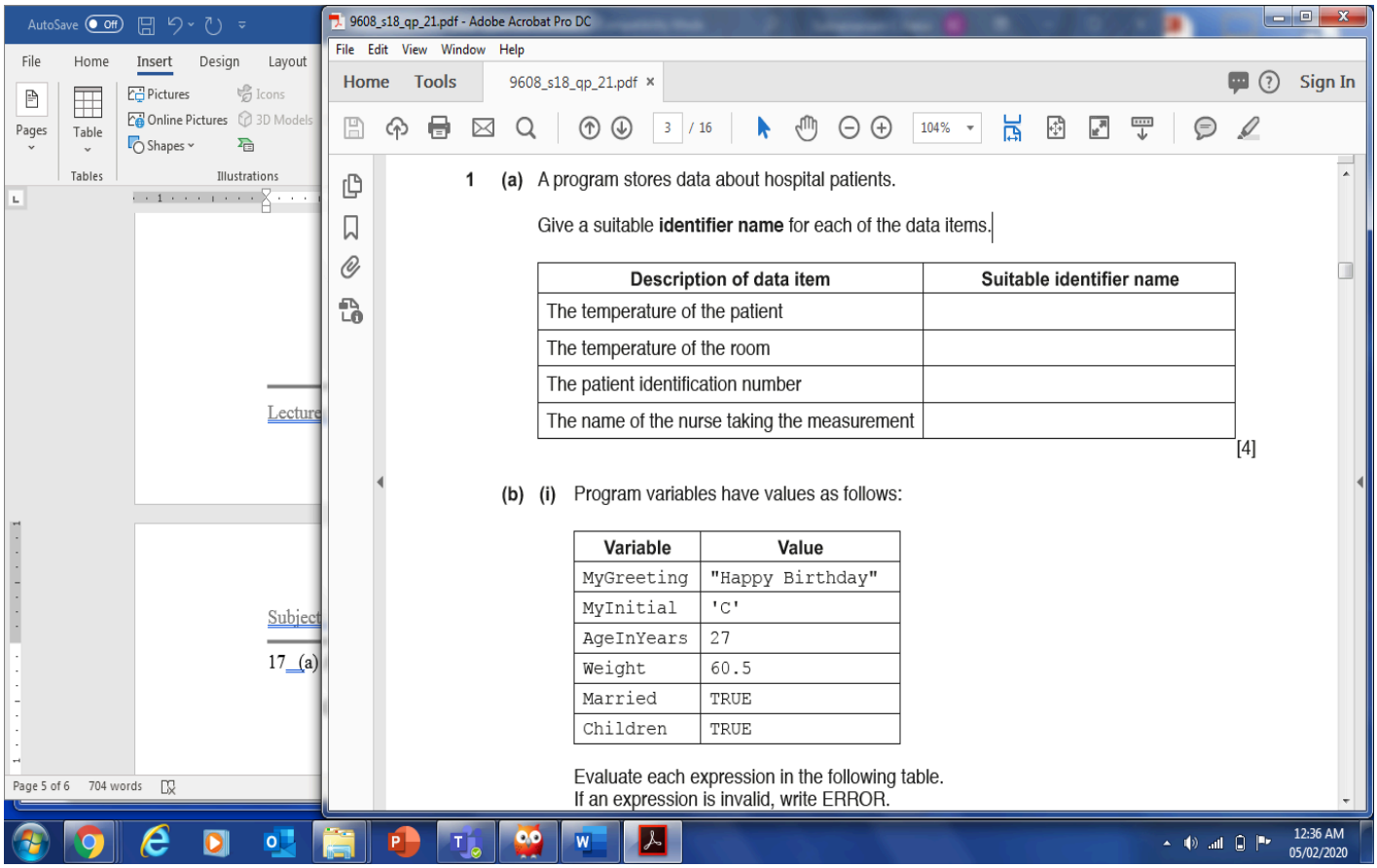
(b) The identifier table needs to show the variables required to write a program for this algorithm.
Complete the table.

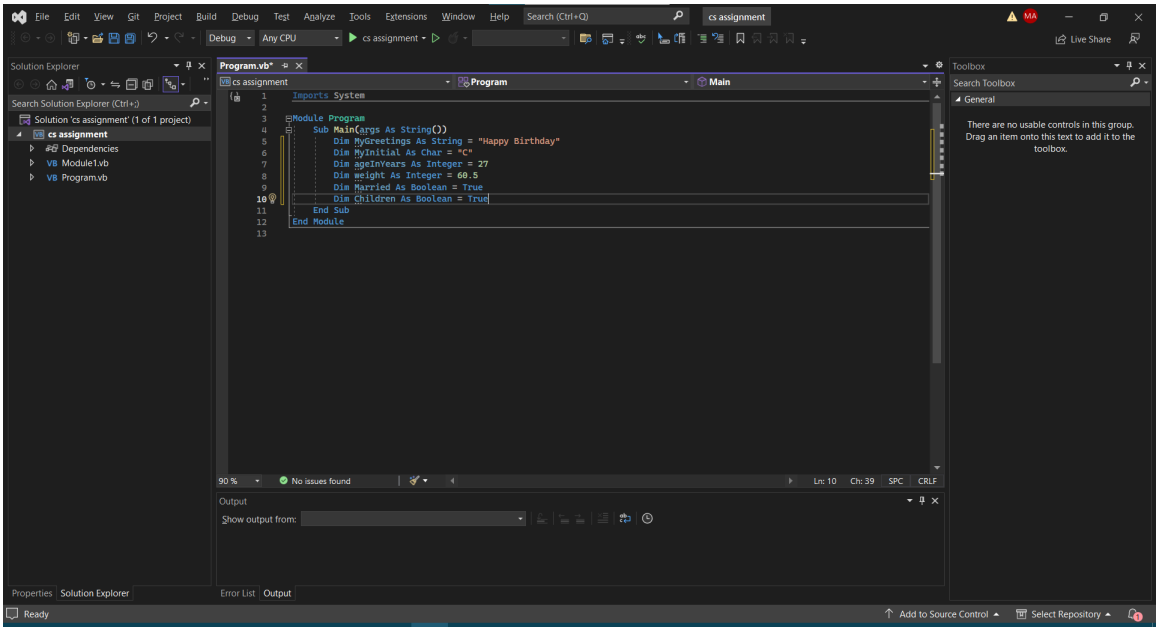
Identifier	Data type	Description
`hours`	`INTEGER`	The hours part of the race time.
Minutes	Integer	Minutes of the race time
seconds	Integer	Seconds of the race time
inSecs	Integer	Total time of the race in seconds

6. (a) A program stores data about hospital patients.

Give a suitable identifier name for each of the data items.

(b) Write a program to display the variables with the given values as follows:




File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search (Ctrl+Q)
cs assignment
Debug
Any CPU
Live Share
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'cs assignment' (1 of 1 project)
cs assignment
Dependencies
Module1.vb
Program.vb
Program.vb*
cs assignment
Program
Main
Imports System
Module Program
Sub Main(args As String())
Dim MyGreetings As String = "Happy Birthday"
Dim MyInitial As Char = "C"
Dim ageInYears As Integer = 27
Dim weight As Integer = 60.5
Dim Married As Boolean = True
Dim Children As Boolean = True
End Sub
End Module
Toolbox
Search Toolbox
General
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.
90 %
No issues found
Ln: 10 Ch: 39 SPC CRLF
Output
Show output from:
Properties Solution Explorer
Error List Output
Ready
Add to Source Control
Select Repository