Taazaa Training

Assignment 2

"Day 1 Revision"

(Library creation and its references)

Submitted by: -

Gurpreet Singh

Step1) make new directory let say Assignmnet-2

Step2) create a new application App1 using "dotnet new console --name App1"

```
Microsoft Windows [Version 10.0.19042.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\hp>cd desktop

C:\Users\hp\Desktop>cd Assignmnet-2
The system cannot find the path specified.

C:\Users\hp\Desktop>md Assignmnet-2

C:\Users\hp\Desktop>cd Assignmnet-2

C:\Users\hp\Desktop>cd Assignmnet-2

C:\Users\hp\Desktop\Assignmnet-2>dotnet new console --name App1
The template "Console Application" was created successfully.

Processing post-creation actions...

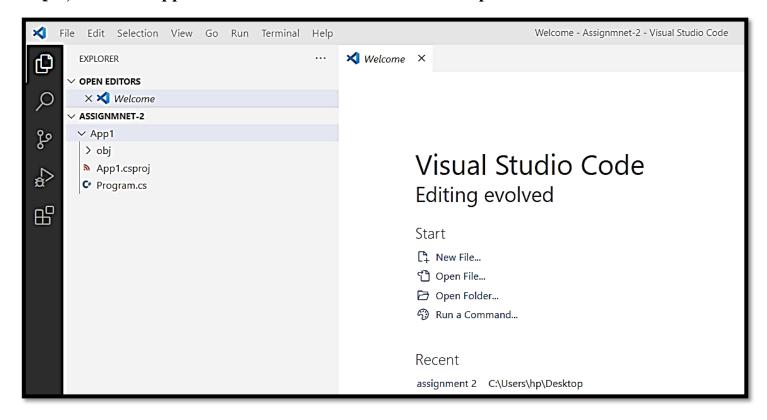
Running 'dotnet restore' on App1\App1.csproj...

Determining projects to restore...

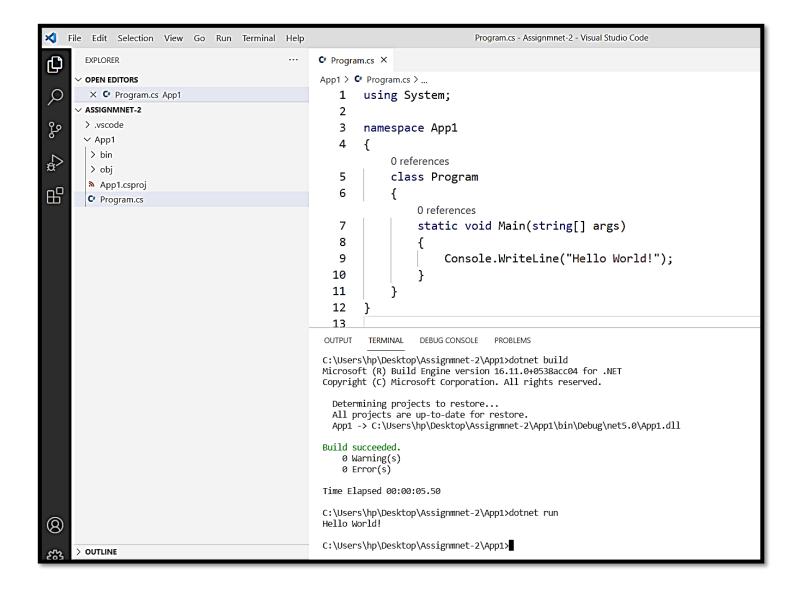
Restored C:\Users\hp\Desktop\Assignmnet-2\App1\App1.csproj (in 70 ms).

Restore succeeded.
```

Step 3) to check App1 creation use command "code ." to open it in vscode



Step 4) Application App1 compiled and run successfully



Now Creating library in Assignmnet-2

Step 5) Creating two libraries named area and perimeter inside Assignment-2 using "dotnet new classlib –o libname> "

```
Command Prompt
C:\Users\hp\Desktop\Assignmnet-2>dotnet new classlib -o area
The template "Class library" was created successfully.
Processing post-creation actions...
Running 'dotnet restore' on area\area.csproj...
 Determining projects to restore...
 Restored C:\Users\hp\Desktop\Assignmnet-2\area.csproj (in 61 ms).
Restore succeeded.
C:\Users\hp\Desktop\Assignmnet-2>dotnet new classlib -o perimeter
The template "Class library" was created successfully.
Processing post-creation actions...
Running 'dotnet restore' on perimeter\perimeter.csproj...
 Determining projects to restore...
 Restored C:\Users\hp\Desktop\Assignmnet-2\perimeter\perimeter.csproj (in 94 ms).
Restore succeeded.
C:\Users\hp\Desktop\Assignmnet-2>
```

Step 6) Now Creating new solution file name myproject

```
C:\Users\hp\Desktop\Assignmnet-2>dotnet new sln --name myproject
The template "Solution File" was created successfully.

C:\Users\hp\Desktop\Assignmnet-2>
```

Here ,Inside Assignment-2 there is an application named app1 library named area and perimeter and solution file name myproject.

```
Command Prompt
C:\Users\hp\Desktop\Assignmnet-2>dir
Volume in drive C is Windows
Volume Serial Number is 6E73-904C
Directory of C:\Users\hp\Desktop\Assignmnet-2
14-08-2021 00:23
                     <DIR>
14-08-2021 00:23
                     <DIR>
13-08-2021 23:15
                    <DIR>
                                    .vscode
13-08-2021 22:47
                    <DIR>
                                    App1
14-08-2021 00:15
                    <DIR>
                                    area
13-08-2021 23:30
                                   myproject
                     <DIR>
                                   perimeter
14-08-2021 00:16
                    <DIR>
               0 File(s)
                                      0 bytes
               7 Dir(s) 155,521,028,096 bytes free
C:\Users\hp\Desktop\Assignmnet-2>
```

Step 7) now, we are adding App1.csproj to solution file

```
C:\Users\hp\Desktop\Assignmnet-2\myproject>dotnet sln add ../App1/App1.csproj
Project `..\App1\App1.csproj` added to the solution.

C:\Users\hp\Desktop\Assignmnet-2\myproject>
```

Step 8) Similarly we are going to add area.csproj and perimeter.proj in our solution file name myproject

```
C:\Users\hp\Desktop\Assignmnet-2\myproject>dotnet sln add ../area/area.csproj
Project `..\area\area.csproj` added to the solution.

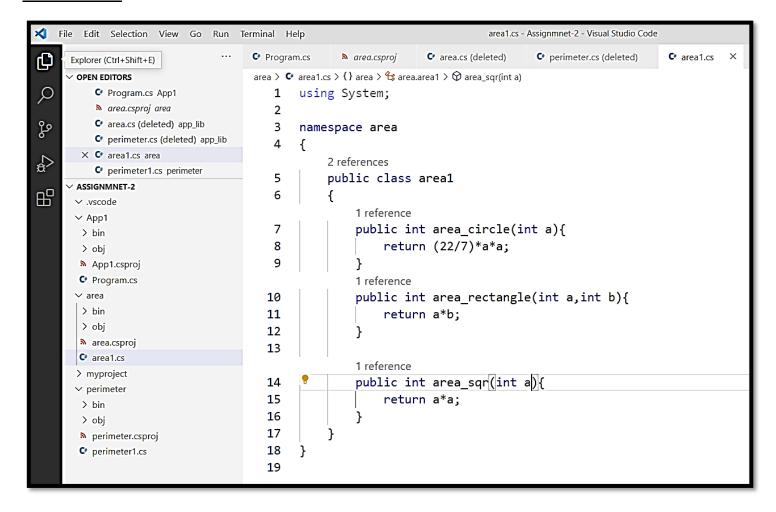
C:\Users\hp\Desktop\Assignmnet-2\myproject>dotnet sln add ../perimeter/perimeter.csproj
Project `..\perimeter\perimeter.csproj` added to the solution.

C:\Users\hp\Desktop\Assignmnet-2\myproject>

C:\Users\hp\Desktop\Assignmnet-2\myproject>
```

Step 9) Now we are going to create some function inside classes of area and perimeter library

Area1 class



Perimeter1 class

```
🖈 File Edit Selection View Go Run Terminal Help
                                                                                         perimeter1.cs - Assignmnet-2 - Visual Studio Code
        EXPLORER
                                           C Program.cs
                                                             area.csproj
                                                                               C area.cs (deleted)
                                                                                                     C perimeter.cs (deleted)
                                                                                                                                                 C perimeter1.cs X
Ф
                                            perimeter > \mathbf{C}^* perimeter1.cs > {} perimeter > \mathbf{C}^* perimeter1.cs > {} perimeter2 perimeter1.cs > {}
      ✓ OPEN EDITORS
           C* Program.cs App1
                                                1 namespace perimeter
           area.csproj area
                                                2
           C area.cs (deleted) app_lib
လူ
                                                           2 references
           C* perimeter.cs (deleted) app_lib
                                                3
                                                           public class perimeter1
           C* area1.cs area
                                                4
        × C perimeter1.cs perimeter
                                                               1 reference

✓ ASSIGNMNET-2

                                                5
                                                               public int peri_circle(int a){

✓ .vscode

                                                6
                                                                      return (22/7)*2*a;
       ∨ App1
                                                7
        > bin
        > obi
                                                                public int peri_rectangle(int a,int b){
                                                8
        App1.csproj
        C* Program.cs
                                                9
                                                                      return (a+b)*2;

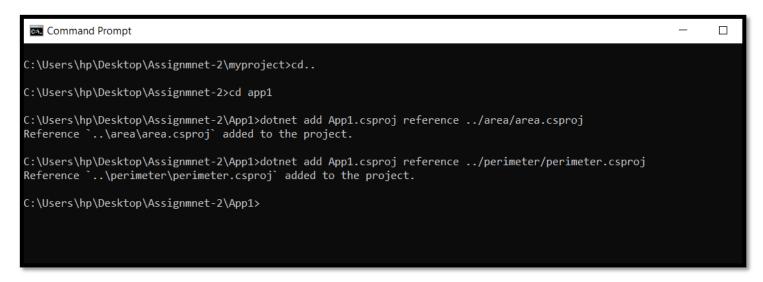
✓ area

                                              10
                                              11
         > obj
        area.csproj
                                                                public int peri_sqr(int a){
                                              12
        C area1.cs
                                              13
                                                                      return 4*a;
        > myproject
                                              14

∨ perimeter

                                              15
         > bin
                                              16
                                                     }
         > obj
         perimeter.csproj
        C* perimeter1.cs
```

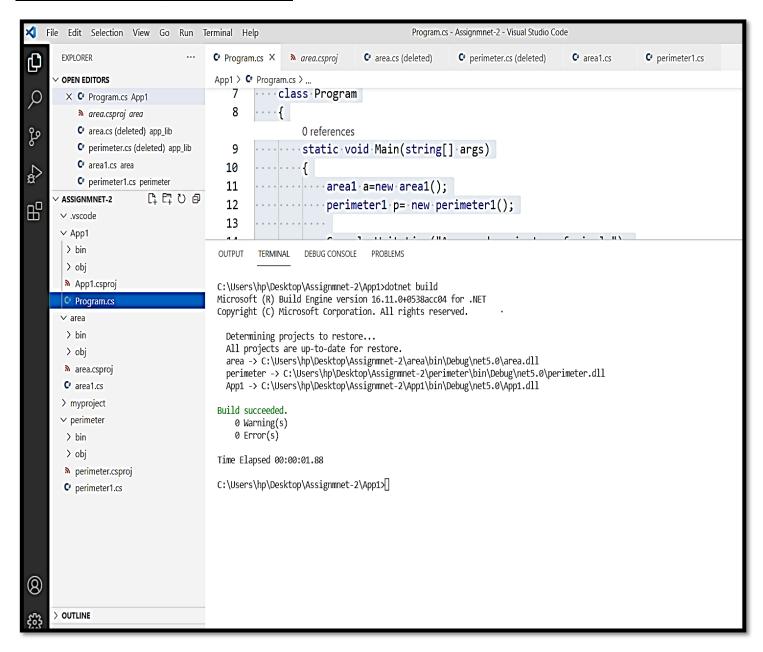
Step 10) Now we are going to take references from area and perimeter library to our application App1.csproj



Step 11) Now we are going to create obj of classes in our application app1 inside program.cs as shown below:-

```
using System;
using area;
using perimeter;
namespace App1
    class Program
    {
        static void Main(string[] args)
        {
            area1 a=new area1();
            perimeter1 p= new perimeter1();
            Console.WriteLine("Area and perimeter of circle");
            Console.WriteLine("enter radius of circle");
            int r=Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("area and perimeter of circle is"+ a.area_circle(r)+" and "+p.peri
_circle(r) );
            Console.WriteLine("Area and perimeter of rectangle");
            Console.WriteLine("enter length of rectangle");
            int l=Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("enter width of rectangle");
            int b=Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("area and perimeter of rectangle is"+ a.area_rectangle(1,b) +" and
 "+p.peri_rectangle(1,b) );
            Console.WriteLine("Area and perimeter of square");
            Console.WriteLine("enter side :");
            int s=Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("area and perimeter of square is"+ a.area_sqr(s)+" and "+p.peri_sq
r(s));
        }
    }
}
```

Step 12) Now we compile our program.cs inside App1 using "dotnet build" command Build successfully with no error



Step 13) Now we run program.cs which is inside App1 using "dotnet run" command Run successfully

