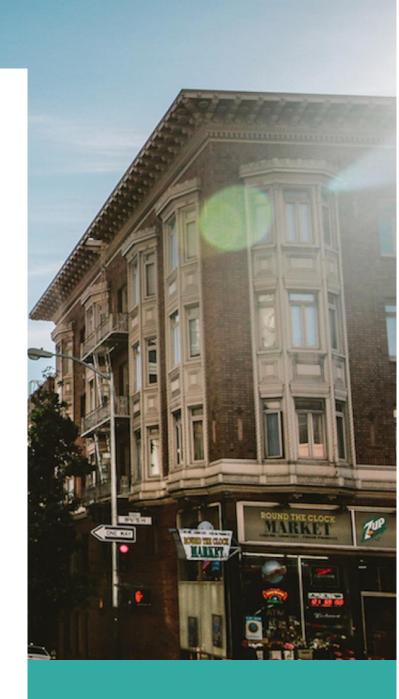


Assingment_14 2022



FEBRUARY 11

@NB_Healthcare.tech
Done by: N. Prudhvi

Healthcare Technologies

Q. WACP to illustrate sealed class.

```
CODE
```

OUTPUT

C:\Windows\system32\cmd.exe

DIAL 108 for ambulance

Q. WACP to illustrate normal properties & auto implementation.

CODE

```
}
   //Auto - Implemented Properties
   public float Resistance
      get
         return voltage * current/current*current;
   }
internal class Program
   static void Main(string[] args)
 * Author : Prudhvi
 * Purpose: To declare a sealed class.
 Console.Write("Enter amps = ");
      float a = float.Parse(Console.ReadLine());
      var instance = new TotalPower();
      instance.Current = a;
      Console.WriteLine();
      Console.Write("Enter voltage =");
      float b = float.Parse(Console.ReadLine());
      instance.Voltage = b;
      Console.WriteLine();
      Console.WriteLine($"watts = {instance.Power}");
      Console.WriteLine();
      Console.WriteLine($"watts = {instance.Resistance}");
      Console.ReadLine();
   }
}
```

OUTPUT

C:\Windows\system32\cmd.exe
Enter amps = 5

Enter voltage =230

Power = 1150watts

Resistance = 46ohms

Q. Difference b/w normal properties auto implementation.

A property is a member that allows you to read, write, or compute the value of a private field in a flexible way. Properties are special procedures known as accessor that can be utilized as if they were public data members. This allows data to be easily accessed while also aiding in the promotion of the product. Methods' safety and flexibility

Auto-Implemented Properties: Auto-implemented properties are available in C# 3.0 and later. When no additional logic is necessary in the property accessor, the declaration becomes more concise. They also make it possible to create objects, you'll need client code.

Q.Prime check

```
CODE
```

```
public class Num_check
       public int Num_br;
       public bool IsPrime(int a,int b =3)
           bool flag = false;
           if (a<=1)
               Console.WriteLine("Enter number unsigned numbers more than one");
               while (b < a )</pre>
                   if (a % b == 0)
                      flag = true;
                      break:
                   b++:
               }
           Num_br = b;
           return flag;
       }
   internal class Program
       static void Main(string[] args)
           /*************
            * Author : Prudhvi
            * Purpose: To Prime Check.
            * *****************************
```

```
static void Main(string[] args)
           var PNC = new Num_check();
           Console.Write("Enter your value:");
           int prime_num = Convert.ToInt32(Console.ReadLine());
           if (PNC.IsPrime(prime_num) == true)
               Console.WriteLine($"{prime_num} it is composite number {PNC.Num_br} ");
           }
           else
               Console.WriteLine($"{prime_num} is a prime number");
           Console.ReadLine();
       }
   }
OUTPUT
 C:\Windows\system32\cmd.exe
Enter your value:734432
734432 it is composite number 4
```

Q. 1st Number divided by 97 after 1000.

CODE

```
static void Main(string[] args)
{
    int Num = 1000;
    int mulp = 97;
    while(Num < Num+mulp)
    {
        if (Num % mulp == 0)
        {
            Console.WriteLine("1st Number diivde by 97 after 1000 ="+Num+".");
            break;
        }
        Num++;
    }
}</pre>
```

OUTPUT

C:\Windows\system32\cmd.exe

1st Number diivde by 97 after 1000 =1067.

Q.