Day 14 Assignment by Vinay Kudali 11-02-2022 notions benefits

1. Research and write what is the use of sealed class.

- A sealed class can have variables as well as normal class.
- But, the thing difference between normal class and sealed class is cannot be used as Super class or parent class for another class
- Inheritance is not possible in Sealed class.

WACP to illustrate sealed class.

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Day14Project1SealedClass
  //Author: Vinay Kudali
  //Purpose:Creating sealed class
  sealed class Hotel
    public int roomNo = 307;
    public string Message()
      return "take care";
  internal class Program
    static void Main(string[] args)
```

```
{
    Hotel h = new Hotel();
    Console.WriteLine(h.Message());
    Console.ReadLine(h.roomNo);
    Console.ReadLine();
}
}

Output:

D:\DotNetProjects\Day 14 Assignment by Vinay Kuc
take care
307
```

2. Research and write what is the differencebetween normal properties and auto-implementedproperties. **Normal Properties Auto-Implemented Properties** Write only- When property contains only "Set". Auto implemented properties must have "get" • Read Only- When property contains Only "get". Accessors. • "Set" is optional, "get" is Mandatory. • Generally, Normal Properties are used to Access Private Variables. Auto-Implemented properties will not do point any other variables. WACP to illustrate normal properties WACP to illustrate auto-implemented properties Code: using System; using System.Collections.Generic; using System.Ling; using System.Text; using System.Threading.Tasks; namespace Day14Project2NormalProperties class SimpleInterest

```
//Author: Vinay Kudali
//Purpose Creating Class By using Normal Properties and Auto-Implemented Properties
private int principleamount;
private int annualRate;
private int time;
private int Interest;
//Normal Properties
public int Principleamount
  set
    principleamount = value;
public int AnnualRate
  set
    AnnualRate = value;
public int Time
  set
    time = value;
public int interest
  get
    return Interest = principleamount * annualRate * time / 100;
//Auto-Implemented Properties
public int AutoImplementedInterest
{
  get
    return Interest = principleamount * annualRate * time / 100;
internal class Program
  static void Main(string[] args)
    SimpleInterest s = new SimpleInterest();
    s.principleamount = 10000;
    s.annualRate = 4;
    s.time = 2;
```

```
Console.WriteLine(s.interest);
Console.WriteLine(s.AutoImplementedInterest);
Console.ReadLine();
}

Output:

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```

```
4. WACP to check if the number is prime or not using logic
discussed in the classHINT: use break;
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Day14Project4CheckPrimeOrNotUsingBreak
  class Program
    //Author: Vinay Kudali
    //Purpose: Findout a number is prime or not by using break
    static void Main(string[] args)
```

```
int i, n = 79;
    for (i = 2; i < n; i++)
    {
        if (n % i == 0)
            break;
    }
    if (i == n)
        Console.WriteLine("{0} is a prime number", n);
    else
        Console.WriteLine("{0} is not a prime number", n);
        Console.ReadLine();
    }
}</pre>
```

Output:

```
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```

```
5. print numbers from 1 to 30 and skip the numbers divisible by 3 HINT: use continue;

Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

```
namespace Day14project5UsingContinue
             class Program
                       //Author:Vinay Kudali
                       //Purpose: Printing the values which are not divisible by 3 using continue
                        static void Main(string[] args)
                        {
                                     int n = 30;
                                     for (int i = 1; i <= n; i++)
                                                 if (i \% 3 == 0)
                                                             continue;
                                                Console.Write(i + " ");
                                     Console.ReadLine();
Output:
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  1 2 4 5 7 8 10 11 13 14 16 17 19 20 22 23 25 26 28 29
```

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6. Find the first number after 1000 which isdivisible by 97.HINT: use for loop and break

Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
```

Output:

1067

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