Summary

Day 3

Inheritance

```
class Animal
    public string Name { get; set; }
    public decimal Weight { get; set; }
class Mammal : Animal
    public FurSize FurSize { get; set; }
    public int NrOfTeeth { get; set; }
class Cat : Mammal
   public string FavoriteFish { get; set; }
class Dog : Mammal
   public int BarkLevel { get; set; }
```

Exceptions

```
try
    decimal number = decimal.Parse(Console.ReadLine());
    decimal division = 1 / number;
    Console.WriteLine($"Ett delat med talet blir {division}");
catch (DivideByZeroException)
    Console.WriteLine("Division med 0");
catch (FormatException)
   Console.WriteLine("Fel i formatet");
```

Interfaces

```
interface ILog
   void Log(string message);
class ConsoleLogger : ILog
    public void Log(string message)
       Console.ForegroundColor = ConsoleColor.White;
        Console.WriteLine(message);
class FileLogger : ILog
    public void Log(string message)
        using (var sr = File.AppendText(@"C:\TMP\loggfile.txt"))
            sr.WriteLine(message);
```

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Abstrakta klasser

```
abstract class Mammal
{
   public string Name { get; set; }
   public int Age { get; set; }
   public abstract double AgeInHumanYears();
}

class Cat : Mammal
{
   public string FavoriteFish { get; set; }

   public override double AgeInHumanYears()
   {
      return Age * 5;
   }
}
```