

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\logfile.txt"))
        {
            sr.WriteLine(message);
        }
    }
}
```

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;
    }
}
```