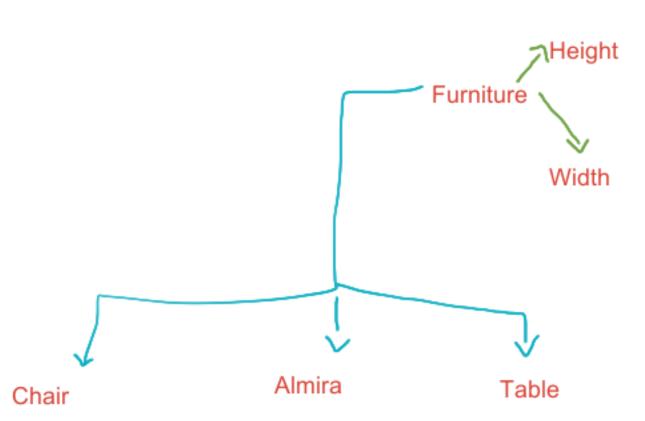
```
1 reference
class Father
   1 reference
   public void foodHabit()
        Console.WriteLine("I Like Salty");
2 references
class Son : Father
                         Derived Class : base Class
0 references
internal class Program
    0 references
    static void Main(string[] args)
    →> Son gopal = new Son();
        gopal.foodHabit();
```





```
Microsoft Visual Studio Debu × + v

Printing Details for Chair

Height: 20 Width: 40
```

```
0 references
class Furniture
    public int height;
    public int width;
    0 references
    public void printDetails(String furnitureType)
        Console.WriteLine($"Printing Details for {furnitureType}");
        Console.WriteLine($"Height : {height} Width : {width}");
      2 references
      class Chair : Furniture {
           1 reference
           public void getDetails()
               //avoiding user input to speed up the explanation
               height = 20; width=40;
               printDetails("Chair");
               // calling the printDetails
```

// function inherited from Furniture

```
class Furniture
  public int height;
  public int width;
  0 references
                                                              mirror
  public void Mirror()
     Console.WriteLine("See yourself here..");
   2 references
   class(Chair): Furniture {
             eference
   2 references
   class Almirah : Furniture
        2 references 👱
        class table : Furniture
              1 reference
```

```
1 reference
interface iAccessorie

{
    1 reference
    void mirror();
}
```

```
2 references
class Almirah : Furniture , iAccessorie
{
    1 reference
    public void mirror() { Console.WriteLine("See yourself here.."); }
```

```
2 references
class Chair : Furniture {
    1 reference
    public void getDetails()
    {
        //avoiding user input to speed up the explanation
        height = 20; width=40;
        printDetails("Chair");
        // calling the printDetails
        // function inherited from Furniture
    }
}
```

```
3 references
class Automobile
    0 references
    public void wheel(int WheelCount) { Console.WriteLine($" I have {WheelCount} Wheels"); }
0 references
class Car : Automobile { }
0 references
class Truck : Automobile { }
0 references
class Bike: Automobile { }
0 references
internal class Program2
```

```
⊡namespace Day5
      1 reference
      interface iParts
          1 reference
           void AC();
      2 references
      interface iMusicPlayer
          1 reference
          void play();
          1 reference
           void pause();
      3 references
      class Automobile
          0 references
          public void wheel(int WheelCount) { Console.WriteLine($" I have {WheelCount} Wheels"); }
          0 references
          public void AC() { }
      0 references
      class Car : Automobile , iParts , iMusicPlayer{
           1 reference
          public void AC() { }
```

```
static void Main(string[] args)
    // Linq : is a concept in c# which lets you query your data easily
    string[] names = { "Bill", "Steve", "James", "Mohan" };
    var AllNames = from name in names select name;
    // let us write aloop that prints all elements
    foreach (var name in AllNames)
         Console.WriteLine(name);
                                                      🖾 Microsoft Visual Studio Debu 💢 😑 💟
                                                      Bill
                                                      Steve
                                                      James
                                                      Mohan
                                                      C.\ Heare \ Daisa Le DC\ course \ range \ Day
```

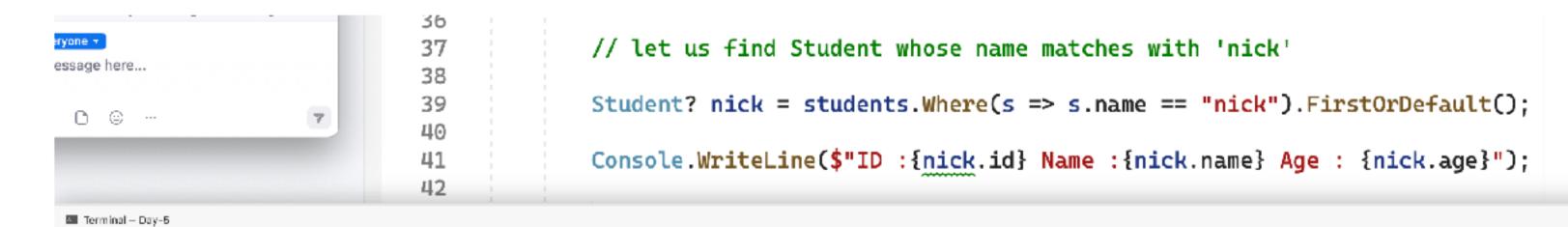
```
namespace Day_5;
class Program
    static void Main(string[] args)
        String[] names = { "James", "Steve", "Mohan", "Bill" };
       //var allNames = from name in names select name;
       // let us alter the query to do the Filteration
        // Objective: find names that contain 'a' in them.
        var allNames = from name in names
                       where name.Contains("a")
                       select name;
        foreach(string fn in allNames){
            Console.WriteLine(fn);
```

```
am > Main(string[] args)
     namespace Day_5;
1
     class Program
3
4
         static void Main(string[] args)
5
             int[] prices = { 67, 84, 91, 42, 84, 36, 41, 90 };
6
8
             // Objective : fetch all prices < 50</pre>
9
10
             var lowPrices = from p in prices
11
                               where p < 50
12
                               select p;
13
             // print all Low Prices
14
15
16
             foreach(int price in lowPrices){
17
                  Console.WriteLine(price);
18
19
20
21 🖗
22
23
24
25
```

```
Program.cs
am → Main(string[] args
         SCACE VOID HAIR SCHINGE BEGST
 5
             // Sorting
 б
             int[] population = { 678, 400, 750, 200, 900, 350 };
 8
 9
10
             // writing the linq query to Sort the Data
11
12
             var sortedPopulation = from p in population
13
                                      orderby p descending
14
15
                                      select p;
16
17
             //printing the sorted Population
18 🤋
             foreach(int pop in sortedPopulation)
19
20
                 Console.WriteLine(pop);
21
22
23
24
```

```
M Student(int id, String name, int age)
  namespace Day_5;
  class Student
       int id;
      String name;
       int age;
      public Student(int id,String name, int age)
           this.id = id;this.name = name;this.age = age;
  class Program
      // using Linq with objects Array
       static void Main(string[] args)
```

```
static void Main(string[] args)
   // Create the Objects Array
    Student[] students =
        new Student(1, "peter", 18),
        new Student(2, "nick", 21),
        new Student(3,"windy",19)
    };
   // let us write linq query to filter the teen Age students
    var teens = students.Where(s => s.age >= 13 && s.age <= 19).ToArray();</pre>
    foreach(Student std in teens)
        Console.WriteLine($"ID :{std.id} Name :{std.name} Age : {std.age}");
```



ID :1 Name :peter Age : 18
ID :3 Name :windy Age : 19
ID :2 Name :nick Age : 21