Main function

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace AppointmentConsoleApp
class Program
static void Main(string[] args)
int i = 1;
while (i != 0)
Console.WriteLine("Options:\n\n1.Check availability of date and time and schedule an appointment.\n2.Check
Appointment is in afternoon or not.\n3.Check appointments on that date.\n4.Anniversary date\n5.Exit");
Console.Write("\nSelect one option: ");
int id = Convert.ToInt32(Console.ReadLine());
if (id == 1)
Console.WriteLine("\nChecking The Date and Time availability...");
Boolean val = Appointment.HasPassed(new TakeDateTime());
if (val == true)
Console.WriteLine("\nThis Date and Time is not available, enter another time.");
Appointment.Schedule(new TakeDateTime().appointDateTime());
else
continue;
else if (id == 2)
Boolean b = Appointment.lsAfternoonAppointment(new TakeDateTime().appointDate());
if (b == true)
Console.WriteLine("\nAfternoon Appointment.");
}
else
Console.WriteLine("\nNo Afternoon Appointment.");
else if (id == 3)
string desc = Appointment.Description(new TakeDateTime().appointDate());
Console.WriteLine(desc);
else if (id == 4)
Console.WriteLine("\nAnniversary date is on {0}", Appointment.AnniversaryDate());
else if (id == 5)
```

```
{
Console.WriteLine("Press any key to exit");
break;
}
else
{
Console.WriteLine("\nWrong Choice!");
continue;
}
i++;
}
Console.ReadKey();
}
```

Appointment Class

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace AppointmentConsoleApp
static class Appointment
static List<DateTime> list = new List<DateTime>();
static DateTime dt1,dt2,dt3,dt4,dtTm;
static string value, desc, anni;
public static void Schedule(DateTime dateTime1)
dt1 = dateTime1;
list.Add(dt1);
Console.WriteLine("Appointment is scheduled for :{0}", dt1.ToString());
public static Boolean HasPassed(DateTime dateTime2)
dt2 = dateTime2;
foreach(var date in list)
if (date.Date == dt2.Date)
dtTm = date.Date;
if (dtTm == dt2)
return true;
else
```

```
Console. WriteLine ("This Date and Time is available, applying for an appointment for this date and time.");
Schedule(dt2);
return false,
public static Boolean IsAfternoonAppointment(DateTime dateTime3)
dt3 = dateTime3;
TimeSpan start = new TimeSpan(12, 0, 0);
TimeSpan end = new TimeSpan(18, 0, 0);
TimeSpan onlyTime = new TimeSpan(00,0,0);
foreach (var item in list)
if(item.Date == dt3)
onlyTime = item.TimeOfDay;
if ((onlyTime >= start) && (onlyTime < end))
return true;
else
return false;
public static string Description(DateTime dateTime4)
dt4 = dateTime4;
foreach(var item in list)
if(item.Date == dt4)
desc = item.ToString();
return desc;
public static string AnniversaryDate()
DateTime anvDt = new DateTime(2021, 01, 15);
anni = anvDt.Date.ToString();
return anni;
```

TakeDateTime Class

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace AppointmentConsoleApp
class TakeDateTime
public DateTime appointDateTime()
Console.WriteLine("Enter Date for Appointment: DD/MM/YYYY HH:MM:SS");
var line = Console.ReadLine();
var separate = line.Split('/',' ',':');
int day = int.Parse(separate[0]);
int month = int.Parse(separate[1]);
int year = int.Parse(separate[2]);
int hour = int.Parse(separate[3]);
int min = int.Parse(separate[4]);
int seconds = int.Parse(separate[5]);
DateTime date = new DateTime(year, month, day, hour, min, seconds);
return date;
public DateTime appointDate()
Console.WriteLine("Enter Date: DD/MM/YYYY");
var line = Console.ReadLine();
var separate = line.Split('/', '', ':');
int day = int.Parse(separate[0]);
int month = int.Parse(separate[1]);
int year = int.Parse(separate[2]);
DateTime date = new DateTime(year, month, day);
return date;
```