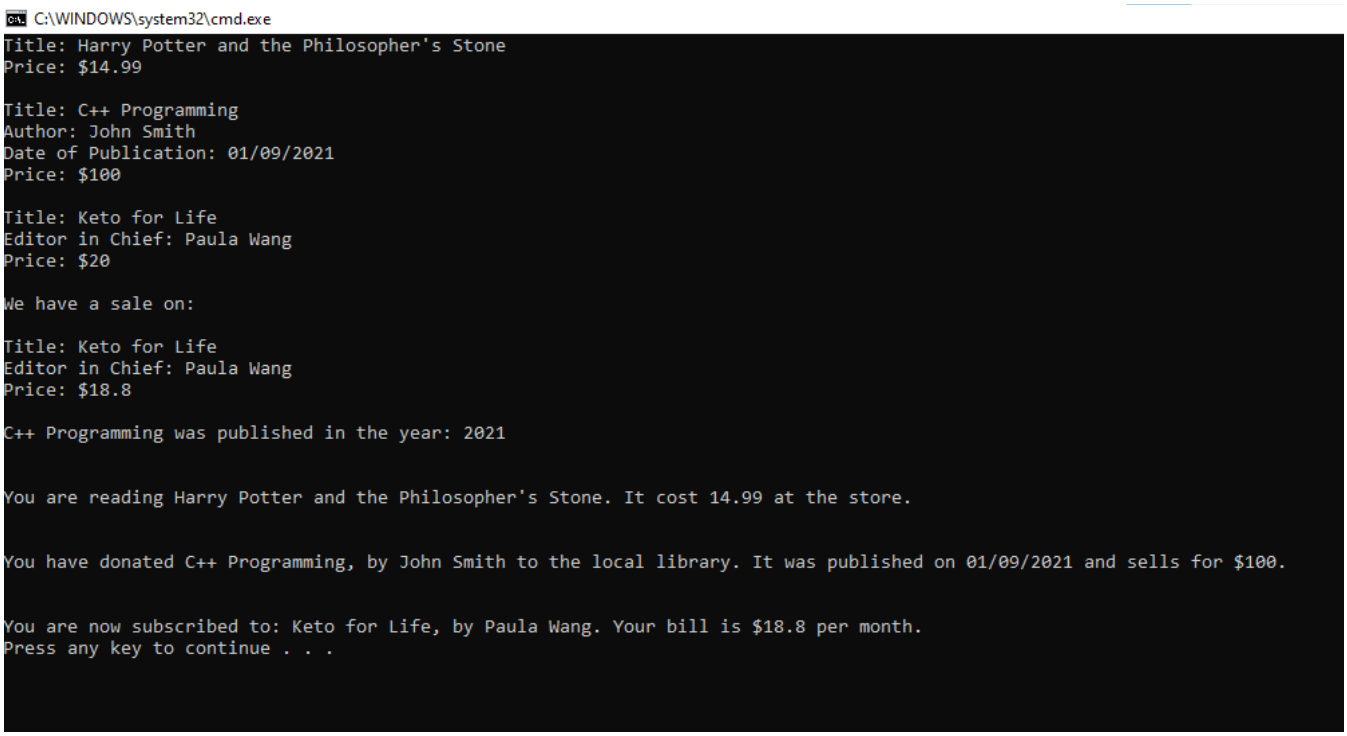
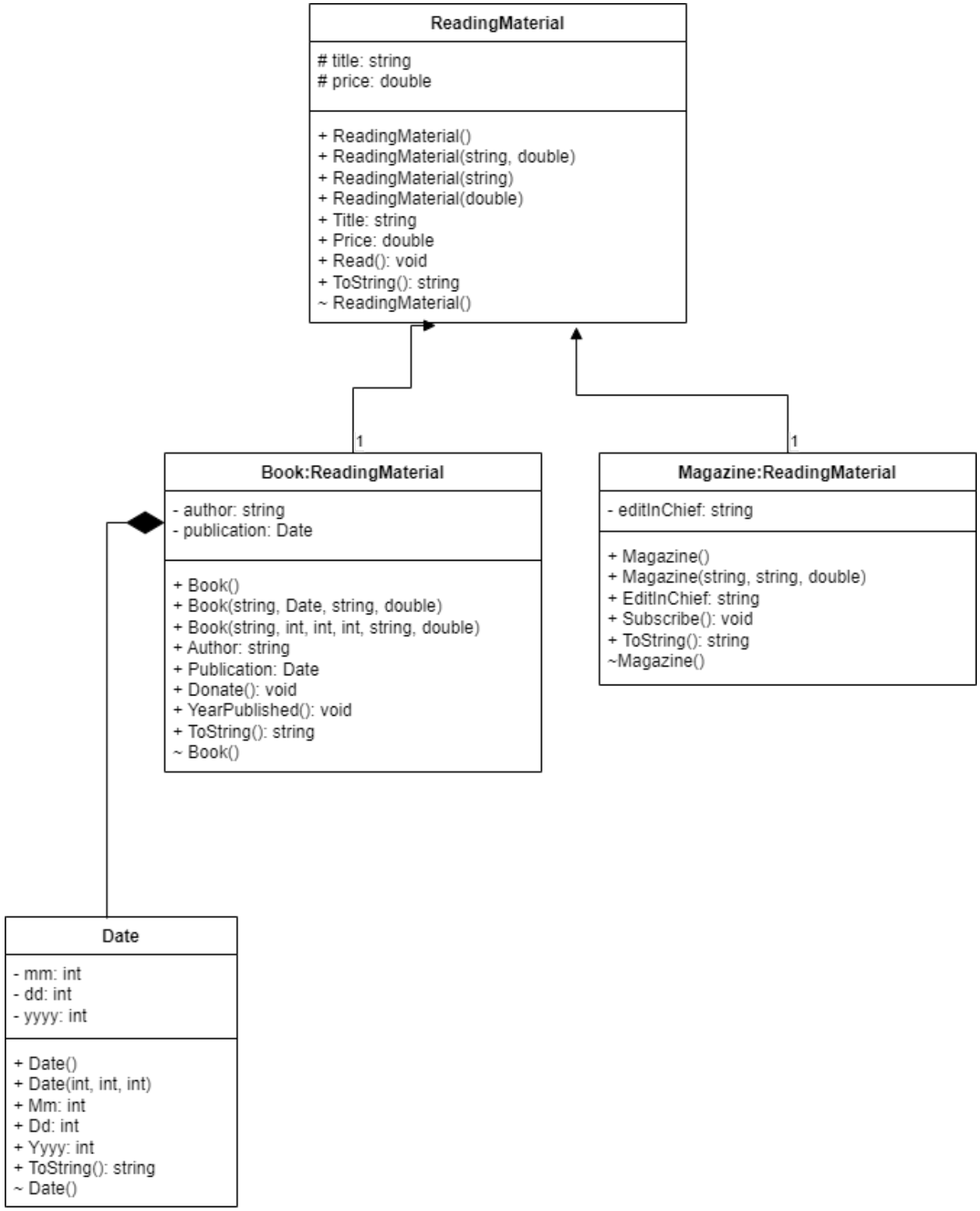

C:\WINDOWS\system32\cmd.exe
Title: Harry Potter and the Philosopher's Stone
Price: $14.99
Title: C++ Programming
Author: John Smith
Date of Publication: 01/09/2021
Price: $100
Title: Keto for Life
Editor in Chief: Paula Wang
Price: $20
We have a sale on:
Title: Keto for Life
Editor in Chief: Paula Wang
Price: $18.8
C++ Programming was published in the year: 2021
You are reading Harry Potter and the Philosopher's Stone. It cost 14.99 at the store.
You have donated C++ Programming, by John Smith to the local library. It was published on 01/09/2021 and sells for $100.
You are now subscribed to: Keto for Life, by Paula Wang. Your bill is $18.8 per month.
Press any key to continue . . .




```
class ReadingMaterial
  {
     protected string title;
     protected double price;
```

```
public ReadingMaterial()
{
   title = "Unknown";
   price = 0.0;
}

public ReadingMaterial(string titlE, double pricE)
{
   title = titlE;
   price = pricE;
}

public ReadingMaterial(string titlE)
{
   title = titlE;
   price = 0.0;
}
public ReadingMaterial(double pricE)
{
   title = "Unknown";
   price = pricE;
}

public string Title
{
   get { return title; }
   set { title = value; }
}

public double Price
{
   get { return price; }
   set
   {
      if (value < 0)
      {
         price = 0;
      }
      else
      {
         price = value;
      }
   }
```

```
    }

    public void Read()
    {
        Console.WriteLine("You are reading {0}. It cost {1} at the store.", title, price);
    }

    public override string ToString()
    {
        return "Title: " + title + "\nPrice: $" + price + "\n";
    }

    ~ReadingMaterial() { }

}
```

```
class Date
  {
    private int mm;
    private int dd;
    private int yyyy;
    public Date()
    {
      mm = 1;
      dd = 1;
      yyyy = 1900;
    }
    public Date(int M, int D, int Y)
    {
      mm = M;
      dd = D;
      yyyy = Y;
    }
    public int Mm
    {
      get { return mm; }
      set
      {
```

```
        if(value<1 || value > 12)
        {
            mm = 1;
        }
        else
        {
            mm = value;
        }
    }
}
public int Dd
{
    get { return dd; }
    set
    {
        if (value<1 || value > 31)
        {
            dd = 1;
        }
        else
        {
            dd = value;
        }
    }
}
public int Yyyy
{
    get { return yyyy; }
    set
    {
        if (value < 1)
        {
            yyyy = 1;
        }
        else
        {
            yyyy = value;
        }
    }
}
public override string ToString()
{
    string OutstrMonth = mm.ToString();
    if (mm < 10) OutstrMonth = "0" + mm.ToString();
```

```
            string OutstrDay = dd.ToString();
            if (dd < 10) OutstrDay = "0" + dd.ToString();
            return OutstrMonth + "/" + OutstrDay + "/" + yyyy.ToString();
        }
        ~Date() { }

    }
```

```
class Book: ReadingMaterial
    {
        private string author;
        private Date publication;

        public Book() : base()
        {
            author = "Unknown";
            publication = new Date();
        }

        public Book(string writer, Date d1, string titlE, double pricE):base(titlE,pricE)
        {
            author = writer;
            publication = d1;
        }

        public Book(string writer, int m, int d, int y, string titlE, double pricE) : base(titlE, pricE)
        {
            author = writer;
            publication = new Date(m,d,y);
        }
```

```
        public string Author
        {
            get { return author; }
            set { author = value; }
        }

        public Date Publication
        {
            get { return publication; }
            set { publication = value; }
        }

        public void Donate()
        {
            Console.WriteLine("You have donated {0}, by {1} to the local library. It was published on
{2} and sold for {3} at the time.", title, author, publication.ToString(), price);
        }

        public void YearPublished()
        {
            Console.WriteLine(title + " was published in the year: " + publication.Yyyy.ToString());
        }

        public override string ToString()
        {
            return "Title: " + title + "\nAuthor: " + author + "\nDate of Publication: "+ publication +
"\nPrice: $" + price + "\n";
        }



        ~Book() { }

    }
```

```
class Magazine: ReadingMaterial
   {
      private string editInChief;

      public Magazine() : base()
      {
         editInChief = "Unknown";
      }

      public Magazine(string editor, string titlE, double pricE) : base(titlE, pricE)
      {
         editInChief = editor;
      }

      public string EditInChief
      {
         get { return editInChief; }
         set { editInChief = value; }
      }

      public void Subscribe()
      {
         Console.WriteLine("You are now subscribed to: {0}, by {1}. Your bill is ${2} per month.",
title, editInChief, price);
      }

      public override string ToString()
      {
         return "Title: " + title + "\nEditor in Chief: " + editInChief + "\nPrice: $" + price + "\n";
      }

      ~Magazine() { }

   }
```

```
class Program
   {
      static void Main(string[] args)
      {
         ReadingMaterial rm1 = new ReadingMaterial("Harry Potter and the Philosopher's
Stone", 14.99);
         Console.WriteLine(rm1.ToString());


         Date pub = new Date(1, 9, 2021);
         Book b1 = new Book("John Smith", pub, "C++ Programming", 100.0);
         Console.WriteLine(b1.ToString());


         Magazine m1 = new Magazine("Paula Wang", "Keto for Life", 20.0);
         Console.WriteLine(m1.ToString());

         Console.WriteLine("We have a sale on: \n");

         m1.Price = 18.8;
         Console.WriteLine(m1.ToString());

         b1.YearPublished();

      }
   }
```