

Run : book.exe provided in the folder

Functions:

1. Print complete book
2. Print table of contents
3. Print by chapter number
4. Print by page number
5. Browse book, using next,previous options

Classes:

Main create object for initialize book

Class	Function
initializeBook	Gives menu of option Initializes createbook class
createBook	Initializes book Adds chapter,pages,figures,para etc to book Print book call
Book	Attributes like title, list of chapters, author,price,firstpage,endpage, table of contents Get and set functions for author,title,price Creates first page and end page Creates index by adding object to list of TOC and print cover/end page, book,chapters
Chapters	Inherits TOC Attributes: list of pages, chapter number, title Functions to add page calls constructor of page class, get for title, print page
Page	Inherits elementContainer and TOC class Attributes page number, title Functions to add para, add figure, get title, get page number (virtual function used to create index)
Para	Inherits elementContainer Attributes content Functions set,get content
Figure	Inherits elementContainer Attributes title caption Functions get and set
First Page	Create cover page of book

	Attribute of book class (book class calls constructor) Attributes : title,author ,book name Function: get title
End Page	Create end page of book Attribute of book class (book class calls constructor) Attributes : price, title Functions: get price
printContainer	Abstract class: virtual print function
elementContainer	Inherits printContainer Attribute: list of object of type printContainer Purpose: To create a list of para and figures in order of them being added to the page Function : add to add object of either para type or figure type Print to call print of respective object
tocContainer	Abstract class: virtual print function Virtual getNo - get chapter / page number Virtual getTitle - get page / chapter title
TOC	Inherits tocContainer Attributes: list of objects of type tocContainer, total chp , total pages Map containing objects of type page / chapter to call print on the object individually Function : add to insert value to map setChp : to get total pages and chapter number Print : prints index printPage :print page with number provided

Output:

```
C:\Users\Kanika\source\repos\book\x64\Release\book.exe
Select an option :
1. Print Book - Clean Code
2. Print Table of contents
3. Print by Chapter number
4. Print by page number
5. Browse Book
2
TABLE OF CONTENTS
-----
Cover Page
Chapter Clean Code
    1 There will be code
    2 Bad Code
Chapter Meaningfull Names
    3 Introduction
    4 Use Intension Revealing names
End Page
Do you want to continue, Yes [y] or No [n] :
_
```

```
C:\Users\Kanika\source\repos\book\x64\Release\book.exe
2. Print Table of contents
3. Print by Chapter number
4. Print by page number
5. Browse Book
3
1      Clean Code
2      Meaningfull Names
Enter the chapter number (int) :
1
-----
1. Clean Code
*****
There will be code

One might argue that a book about code is somehow behind the times that code is no longer the issue that we should be c
oncerned about models and requirements instead. Indeed some have suggested that we are close to the end of code
-----end of page -----
Bad Code

This is figure
This is caption
I know of one company that, in the late 80s, wrote a killer app. It was very popular, and lots of professionals bought an
d used it.
This is a figure
CAPTION
-----end of page -----
-----
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Next [n] | Previous [p]
n
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p
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