**Звіт**

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Код програми:

using System;

{

class Program

{

static void Main()

{

Book[] newBook = new Book[20];

Magazine[] newMagazine = new Magazine[20];

for (int i = 0; i < 20; i++)

{

newBook[i] = new Book();

newBook[i].GetPages();

newBook[i].GetRating();

newBook[i].GetPrise();

newBook[i].GetEdition();

newBook[i].GetName();

newBook[i].GetGenre();

newMagazine[i] = new Magazine();

newMagazine[i].GetPages();

newMagazine[i].GetRating();

newMagazine[i].GetPrise();

newMagazine[i].GetEdition();

newMagazine[i].GetName();

newMagazine[i].GetGenre();

}

for (int j = 0; j < 20; j++)

{

newBook[j].Print();

newMagazine[j].Print();

}

}

}

}

using System;

using System.Collections.Generic;

using System.Text;

namespace Laba\_7

{

abstract class PE

{

public int pages;

public int rating;

public float price;

public String edition;

public String Name;

public void GetPages()

{

Random rnd = new Random();

int value = rnd.Next(10, 100);

pages = value;

}

public void GetRating()

{

Random rnd = new Random();

int value = rnd.Next(1, 5);

rating = value;

}

public void GetPrise()

{

price = pages \* rating;

}

public void GetEdition()

{

Random rnd = new Random();

int value = rnd.Next(0, 4);

string[] list = { "Serhii Viktorovych Zhadan ", "Lina Vasylivna Kostenko ", "Lesya Ukrainka ", " Vasyl Semenovych Stus ", "Pavlo Hryhorovych Tychyna " };

edition = list[value];

}

public void GetName()

{

Random rnd = new Random();

int value = rnd.Next(1, 10000);

string sint = Convert.ToString(value);

Name = edition + sint;

}

public virtual void Print()

{

Console.WriteLine("Кількість сторінок = {0}",pages);

Console.WriteLine("Рейтинг = {0}", rating);

Console.WriteLine("Ціна = {0}", price);

Console.WriteLine("Автор = {0}", edition);

Console.WriteLine("Типу назва = {0}", Name);

}

}

}

using System;

using System.Collections.Generic;

using System.Text;

namespace Laba\_7

{

class Book : PE

{

public String genre;

public void GetGenre()

{

Random rnd = new Random();

int value = rnd.Next(0, 4);

string[] list = { "Comedy ", "Science fiction ", "Romance ", "Autobiography ", "Fantasy " };

genre = list[value];

}

public override void Print()

{

Console.WriteLine("Книга ");

base.Print();

Console.WriteLine("Жанр = {0}", genre);

Console.WriteLine(" ");

}

}

}

using System;

using System.Collections.Generic;

using System.Text;

namespace Laba\_7

{

class Magazine : PE

{

public String genre { get; set; }

public void GetGenre()

{

Random rnd = new Random();

int value = rnd.Next(0, 4);

string[] list = { "Fashion ", "Science ", "Sport ", "News ", "Other " };

genre = list[value];

}

public override void Print()

{

Console.WriteLine("Журнал ");

base.Print();

Console.WriteLine("Наповнення = {0}", genre);

Console.WriteLine(" ");

}

}

}