## Практична 3.

```
Завдання 1.
using System;
class Title
{
  public string Text { get; }
  public Title(string text)
  {
    Text = text;
  }
  public void Show()
  {
    Console.ForegroundColor = ConsoleColor.Green;
    Console.WriteLine("Title: " + Text);
    Console.ResetColor();
  }
}
```

```
class Author
{
  public string Name { get; set; }
  public Author(string name)
    Name = name;
  }
  public void Show()
  {
    Console.ForegroundColor = ConsoleColor.Blue;
    Console.WriteLine("Author: " + Name);
    Console.ResetColor();
 }
}
class Content
{
  public string Text { get; set; }
  public Content(string text)
```

```
{
    Text = text;
  }
  public void Show()
  {
    Console.ForegroundColor = ConsoleColor.Yellow;
    Console.WriteLine("Content: " + Text);
    Console.ResetColor();
  }
}
class Book
{
  public Title BookTitle { get; }
  public Author BookAuthor { get; set; }
  public Content BookContent { get; set; }
  public Book(string title, string author, string content)
  {
    BookTitle = new Title(title);
    BookAuthor = new Author(author);
```

```
BookContent = new Content(content);
 }
  public void Show()
 {
    BookTitle.Show();
    BookAuthor.Show();
    BookContent.Show();
  }
}
class Program
{
  static void Main()
 {
    Book myBook = new Book("C# Programming", "John Doe", "This is a book
about C# programming.");
    myBook.Show();
   // editing
    myBook.BookAuthor.Name = "Jane Doe";
    myBook.BookContent.Text = "Updated content about C# programming.";
```

```
myBook.Show();
}
```

## Завдання 2.

```
using System;

class Point
{
    public int X { get; }
    public int Y { get; }
    public string Name { get; }

public Point(int x, int y, string name)
    {
```

```
X = x;
    Y = y;
    Name = name;
  }
}
class Figure
{
  private Point[] points;
  public Figure(params Point[] points)
  {
    if (points.Length < 3 || points.Length > 5)
    {
      throw new ArgumentException("A figure must have between 3 and 5
points.");
    }
    this.points = points;
  }
  public double LengthSide(Point A, Point B)
  {
    return Math.Sqrt(Math.Pow(B.X - A.X, 2) + Math.Pow(B.Y - A.Y, 2));
```

```
}
  public void PerimeterCalculator()
  {
    double perimeter = 0;
    for (int i = 0; i < points.Length; i++)
    {
      perimeter += LengthSide(points[i], points[(i + 1) % points.Length]);
    }
    Console.WriteLine($"Perimeter of the polygon: {perimeter}");
  }
}
class Program
{
  static void Main()
  {
    Point A = new Point(0, 0, "A");
    Point B = new Point(0, 4, "B");
    Point C = new Point(3, 0, "C");
    Point D = new Point(3, 4, "D");
```

```
Figure figure = new Figure(A, B, C, D);
figure.PerimeterCalculator();
}
```

```
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Output

Outpu
```