

Код программы:

```
Circle.py
import math
from .figure import Figure
from .color import Color

class Circle(Figure):
    def __init__(self, radius, color):
        self.radius = radius
        self.color = Color(color)

    def area(self):
        return math.pi * (self.radius ** 2)

Color.py
class Color:
    def __init__(self, color):
        self.color = color

    def __repr__(self):
        return self.color

Figure.py
from abc import ABC, abstractmethod

class Figure(ABC):
    @abstractmethod
    def area(self):
        pass

    def __repr__(self):
        return f"{self.__class__.__name__}: {self.color} {self.area():.2f} sq. units"

Rectangle.py
from .figure import Figure
from .color import Color

class Rectangle(Figure):
    def __init__(self, width, height, color):
        self.width = width
        self.height = height
        self.color = Color(color)

    def area(self):
        return self.width * self.height

Square.py
from .rectangle import Rectangle

class Square(Rectangle):
    def __init__(self, side, color):
        super().__init__(side, side, color)

Main.py
from lab_python_oop.rectangle import Rectangle
from lab_python_oop.square import Square
from lab_python_oop.circle import Circle
import colorama

N = 4

rect = Rectangle(N, N, "blue")
circle = Circle(N, "green")
square = Square(N, "red")

print(rect)
print(circle)
print(square)
```

```
print(colorama.Fore.GREEN + "Hello, World!" + colorama.Style.RESET_ALL)
```

Результат:

Rectangle: blue 16.00 sq. units

Circle: green 50.27 sq. units

Square: red 16.00 sq. units

Hello, World!

Process finished with exit code 0