```
a7_mnoel2018.py ×
                    class Color(object):
    def __init__(self, r, g, b):
        self.r = self.checkRange(r)
        self.g = self.checkRange(g)
        self.b = self.checkRange(b)
                             def checkRange(self,color_component):
    if color_component < θ:
        return θ</pre>
                         def __repr__(self):
    return self.__str__()
                    # Test Code
red = Color(1,0,0)
green = Color (0,1,0)
blue = Color (0,0,1)
cyan = Color (0,1,1)
magenta = Color (1,0,1)
yellow = Color (1,1,0)
black = Color (0,0,0)
white = Color (1,1,1)

    a7_mnoel2018.py 
    ×

python > A7 > • a7_mnoel2018.py > 49 white = Color (1,1,1)
                    print("\n\na simple program for performing addition and subtraction using colors.\n\n")
                    if color one == "red": color one = red
elif color one == "green": color one = green
elif color one == "blue": color one = blue
elif color one == "cyan": color one = blue
elif color one == "magenta": color one = magenta
elif color one == "plack": color one = black
elif color one == "black": color one = black
elif color one == "black": color one = black
elif color one == "white": color one = white
else : print("Error")
                       Excase for second input

if color_two == "red": color_two = red
elif color_two == "green": color_two = green
elif color_two == "green": color_two = blue
elif color_two == "color_two = blue
elif color_two == "segneta": color_two = cyan
elif color_two == "segneta": color_two = magenta
elif color_two == "white": color_two = black
elif color_two == "white": color_two = white
else: print("Error")
                        print("Color 1 + Color 2 =", c1)
print("Color 1 - Color 2 =", c2)
```

```
a simple program for performing addition and subtraction using colors.
Enter two colors by name or (r,g,b) values
Valid names are:
red (1, 0, 0)
green (0, 1, 0)
blue (0, 0, 1)
cyan (0, 1, 1)
magenta (1, 0, 1)
yellow (1, 1, 0)
black (0, 0, 0)
white (1, 1, 1)
Enter Color 1: red
Enter Color 2: blue
Color 1 + Color 2 = (1, 0, 1)
Color 1 - Color 2 = (1, 0, 0)
PS C:\Users\maken\OneDrive\Documents\apps> []
   a simple program for performing addition and subtraction using colors.
   Enter two colors by name or (r,g,b) values
   Valid names are:
   red (1, 0, 0)
   green (0, 1, 0)
   blue (0, 0, 1)
   cyan (0, 1, 1)
   magenta (1, 0, 1)
   yellow (1, 1, 0)
   black (0, 0, 0)
   white (1, 1, 1)
   Enter Color 1: green
   Enter Color 2: white
   Color 1 + Color 2 = (1, 1, 1)
   Color 1 - Color 2 = (0, 0, 0)
   PS C:\Users\maken\OneDrive\Documents\apps> [
 a simple program for performing addition and subtraction using colors.
 Enter two colors by name or (r,g,b) values
 Valid names are:
Valid names are:
red (1, 0, 0)
green (0, 1, 0)
blue (0, 0, 1)
cyan (0, 1, 1)
magenta (1, 0, 1)
yellow (1, 1, 0)
black (0, 0 a)
black (0, 0, 0)
white (1, 1, 1)
 Enter Color 1: blue
 Enter Color 2: green
 Color 1 + Color 2 = (0, 1, 1)
Color 1 - Color 2 = (0, 0, 1)
PS C:\Users\maken\OneDrive\Documents\apps> []
```

```
a simple program for performing addition and subtraction using colors.
Enter two colors by name or (r,g,b) values
Valid names are:
red (1, 0, 0)
 green (0, 1, 0)
blue (0, 0, 1)
cyan (0, 1, 1)
magenta (1, 0, 1)
yellow (1, 1, 0)
black (0, 0, 0)
white (1, 1, 1)
 Enter Color 1: yellow
 Enter Color 2: red
Color 1 + Color 2 = (1, 1, 0)
Color 1 - Color 2 = (0, 1, 0)
PS C:\Users\maken\OneDrive\Documents\apps>
 a simple program for performing addition and subtraction using colors.
 Enter two colors by name or (r,g,b) values
 Valid names are:
Valid names are:

red (1, 0, 0)

green (0, 1, 0)

blue (0, 0, 1)

cyan (0, 1, 1)

magenta (1, 0, 1)

yellow (1, 1, 0)

black (0, 0, 0)

white (1, 1, 1)
 Enter Color 1: cyan
 Enter Color 1: Cyan
Enter Color 2: magenta
Color 1 + Color 2 = (1, 1, 1)
Color 1 - Color 2 = (0, 1, 0)
PS C:\Users\maken\OneDrive\Documents\apps>
```