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Name: Jesus Andres Bernal Lopez
Title: Lab 2- Color Space Models
Date: January 29, 2019
def task1():
    # print()
    red, green, blue = input ("Enter color values separated by a space:
").split()
    color = (int(red), int(green), int(blue))
    dominant color = 0
    largest number = -1
    for i in range(len(color)):
        if color[i] > largest number:
            largest_number = color[i]
            dominant color = i
    print(one dominant color(dominant color))
def task2():
    red, green, blue = input ("Enter color values separated by a space:
").split()
    color = (int(red), int(green), int(blue))
    dominant colors = []
    largest number = -1
    for i in range(len(color)):
        if color[i] > largest_number:
            dominant colors.clear()
            dominant_colors.append(i)
            largest number = color[i]
        elif color[i] == largest_number:
            dominant colors.append(i)
    print(two dominant colors(dominant colors))
def task3():
    color_hex = input("Hex value: ")
    red = int(color_hex[1] + color_hex[2], 16)
    green = int(color hex[3] + color_hex[4], 16)
    blue = int(color hex[5] + color hex[6], 16)
    rgb tuple = (red, green, blue)
    print(rgb tuple)
def task4():
    red, green, blue = input ("Enter color values separated by a space:
").split()
    rgb tuple = (int(red), int(green), int(blue))
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hex color = "#%02x%02x%02x" % rgb tuple
   print(hex color)
def task5():
   red, green, blue = input ("Enter color values separated by a space:
   color tuple = (int(red), int(green), int(blue))
    dominant colors = []
    largest number = -1
    for i in range(len(color tuple)):
        if(color tuple[i] > largest number):
            dominant colors.clear()
            dominant colors.append(i)
            largest_number = color_tuple[i]
        elif(color tuple[i] == largest number):
            dominant colors.append(i)
    if(len(dominant_colors) == 1):
        dominant color = dominant colors[0]
        print(one dominant color(dominant color))
   else:
        print(two dominant colors(dominant colors))
def one dominant color (dominant color):
    if dominant color == 0:
        return "The color is reddish"
   elif dominant color == 1:
       return "The color is greenish"
   else:
       return "The color is blueish"
def two dominant colors(dominant colors):
    if dominant_colors.__contains__(0) and
dominant colors. contains (1):
        return "The color is a shade of yellow."
   elif dominant_colors.__contains__(0) and
dominant_colors.__contains__(2):
        return "The color is a shade of magenta."
    elif dominant colors. contains (1) and
dominant colors. contains (2):
        return "The color is a shade of cyan."
if name == " main ":
   run_again = True
   while run again:
        task = int(input("What task would you like to run(1-5)(Any other
number to stop): "))
       if task == 1:
            task1()
        elif task == 2:
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task2()
      elif task == 3:
         task3()
      elif task == 4:
         task4()
      elif task == 5:
         task5()
      else:
         run again = False
Summary:
The part that I found most difficult was attempting to figure out a way to
allow user to input all values in a single line.
______
task 1 sample tests:
_____
What task would you like to run(1-5) (Any other number to stop): 1
Enter color values separated by a space: 205 96 144
The color is reddish
What task would you like to run(1-5) (Any other number to stop): 1
Enter color values separated by a space: 28 134 238
The color is blueish
What task would you like to run(1-5)(Any other number to stop): 1
Enter color values separated by a space: 72 209 204
The color is greenish
What task would you like to run(1-5) (Any other number to stop): 1
Enter color values separated by a space: 237 145 33
The color is reddish
What task would you like to run(1-5)(Any other number to stop): 0
_____
______
task 2 sample tests:
______
What task would you like to run(1-5) (Any other number to stop): 2
Enter color values separated by a space: 250 250 70
The color is a shade of yellow.
What task would you like to run(1-5) (Any other number to stop): 2
Enter color values separated by a space: 245 50 245
The color is a shade of magenta.
What task would you like to run(1-5) (Any other number to stop): 2
Enter color values separated by a space: 100 231 231
The color is a shade of cyan.
What task would you like to run(1-5) (Any other number to stop): 0
_____
______
task 3 sample tests:
______
What task would you like to run(1-5)(Any other number to stop): 3
Hex value: #9932CC
(153, 50, 204)
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11 11 11

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What task would you like to run(1-5)(Any other number to stop): 3
Hex value: #7FFF00
(127, 255, 0)
What task would you like to run(1-5) (Any other number to stop): 3
Hex value: #FF86C2
(255, 134, 194)
What task would you like to run(1-5) (Any other number to stop): 0
_____
______
task 4 sample tests:
______
What task would you like to run(1-5) (Any other number to stop): 4
Enter color values separated by a space: 250 250 70
#fafa46
What task would you like to run(1-5) (Any other number to stop): 4
Enter color values separated by a space: 245 50 245
#f532f5
What task would you like to run(1-5) (Any other number to stop): 4
Enter color values separated by a space: 100 231 231
#64e7e7
What task would you like to run(1-5) (Any other number to stop): 9
_____
______
task 5 sample tests:
______
What task would you like to run(1-5) (Any other number to stop): 5
Enter color values separated by a space: 70 240 150
The color is greenish
What task would you like to run(1-5) (Any other number to stop): 5
Enter color values separated by a space: 167 167 42
The color is a shade of yellow.
What task would you like to run(1-5) (Any other number to stop): 5
Enter color values separated by a space: 223 67 223
The color is a shade of magenta.
What task would you like to run(1-5) (Any other number to stop): 5
Enter color values separated by a space: 70 67 243
The color is blueish
What task would you like to run(1-5) (Any other number to stop): 324
_____
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