



BIRZEIT UNIVERSITY

Computer Science Department

COMP3321 (First semester 2020/2021)

First Project (Color Models)

Due Date: 20/10/2020

Write a program to do the following tasks

The interface shows three color models: RGB, CMY, and HSV. It has two input sections, Color #1 and Color #2, each with RGB sliders and a color swatch. Color #1 is set to Yellow (R: 255, G: 255, B: 0). Color #2 is set to Red (R: 255, G: 0, B: 0). A Run button is between the input sections and the Result section. The Result section shows converted values for CMY and HSV, along with a color swatch for the result (Orange).

Color #1			Color #2			Result		
R	255		R	255		R	255	
G	255		G	0		G	0	
B	0		B	0		B	0	

Task one

- 1) Given two RGB color range, your task is to find the new color that combines the two colors.
- 2) Convert the new RGB color to CMY color.
- 3) Convert the new RGB color to HSV color.

Task Two

- 1) Given two CMY color range, your task is to find the new color that combines the two colors.
- 2) Convert the new CMY color to RGB color.
- 3) Convert the new CMY color to HSV color.

Task three

- 1) Given two HSV color range, your task is to find the new color that combines the two colors.
- 2) Convert the new HSV color to RGB color.
- 3) Convert the new HSV color to CMY color.