Module 1	
Name: Julia Vilmaz	
(1) Which one of the following color systems is subtractive? (10 pts)	
1. HSV 2. CMYK 3. RGB 4. None of the above	
Answer: 2	
(2) OpenCv stores RGB color images in an array with how many dimensions? (10 pts)	
1. Three dimensional 2. One dimensional 3. Two dimensional 4. None of the above	
Answer: 2	
(3) Image data is imported by OpenCv in what data type? (10 pts)	
 Signed 16 bit integer 64 bit floating point number Unsigned 8 bit integer None of the above 	
Answer:	
(4) The following pixel grid is stored in a 3D array, what is the array position of the number 60? (10 pts)	
55,100,200 74,124,100 89;210,10 124,74,191 174,43,34 201,142 191,50,10 215,111,84 245,139,81	
1. [2][2][2] ×[1][2][3]	

1. [2][2][2] [1][2][3] (3) [1][2][2] (2) [2][1]

(2)[2][1] 5. None of the above

Answer: 3

(5) HSV encodes color informati from? (10 pts)	on by separating out the brightness (value or intensity) value
The two values for encoding chromaticity	y (color).
2. The Red, Green, and Blue color channels	
3. The additive color system.	
4. None of the above	
Answer:	
(6) A black and white image hist	ogram is a plot of? (10 pts)
1. The angle of the Hue value.	Number 2: Prightness Intensity
2. The array position of the pixel values.	Number 3: Brightness Intensity
3. The brightness (intensity) distribution of4. The largest saturation value in the image	
4. The largest saturation value in the image	
Answer: 2	
(7)) Which is not a Raster file typ	pe and does not store pixel data in an array? (10 pts)
√. TIFF	
JPEG	
③ PostScript (PDF)	
4. PNG	
Answer:	
(8) True or False: A Python list of will output [2,4,6]. (10 pts)	loes support mathematical operations, so the following code
wiii odtput [2,4,0]. (10 pts)	False, Numpy arrays support math operations. Python li
list = [1,2,3] list = list * 2	will just repeat the array
print(list)	
Answer: True, Lists an Vse	moth, but not Arrays!
	ne image pipeline we built in class for skin tracking. (20 pts)
	a plain english explanation. Just be as clear as possible.
Your first line should be: Import image.	1. Import Image
Your last line should be: Draw masked image	2 0 1000
last much as I down	2. Appary 2e may clonver
the arms arms	3 glot out the top lettand but Gui
toply mask and draw asked image!	J. Plat a square around the
•	image to go points to make a make
	2. Appalyze image Convert to constant 19th points on to 3. plot out the top lestand bottom right points on to image to yet a square around the face image to yet a square around the face you was points to make a mask y. Use those points to make a mask 5. Make a histogram vsing he mask 5. Make a histogram to get skin tome varyes; use 6. Use the trisb gram to get skin tome varyes; use
	5. Make a histogram ving the
	I by Use the tristigram to get skin tome enry
	maker new mask