

CPSC 1045: Exercise 8 [10 marks]

Complete this exercise individually. Please follow the instructions **carefully** and complete all of the steps.

1. Create the following web page. This page should look as similar to the one below as possible. It should contain the text, the dropdown input field, and the drawing on a canvas with a width of 300 and a height of 300

Color Selector

What size should the background be? Enter a number between 0-150

What color should the drawing be? white ▼

Draw

white

red

blue

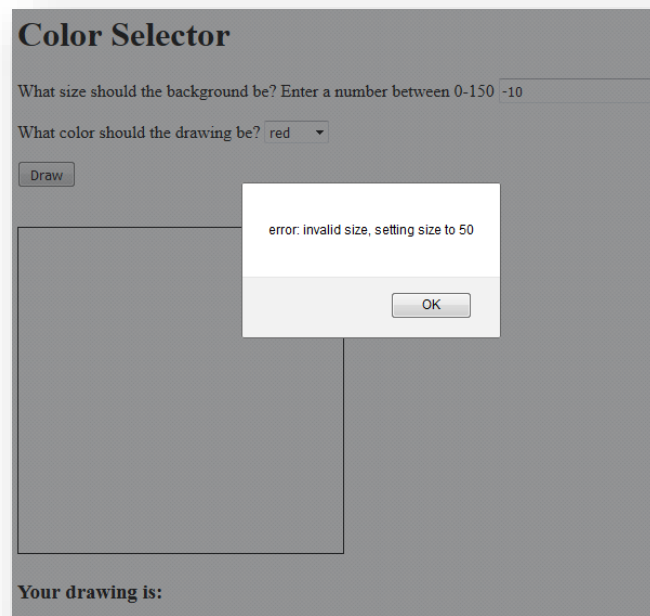
green

Your drawing is:

2. When the user clicks the Draw button, a circle should be drawn. The circle should have the radius that is entered in the text field, and it should be filled with the color selected from the dropdown menu. A text summary describing the circle should be shown below the canvas.
3. The text field should only accept numbers between 0 and 150 so that the circle isn't larger than the canvas. If an invalid number is entered in the text field, an error message should appear and a circle of radius 50 should be drawn.

4. The images below show several sample outputs.

Sample 1: With error:



Color Selector

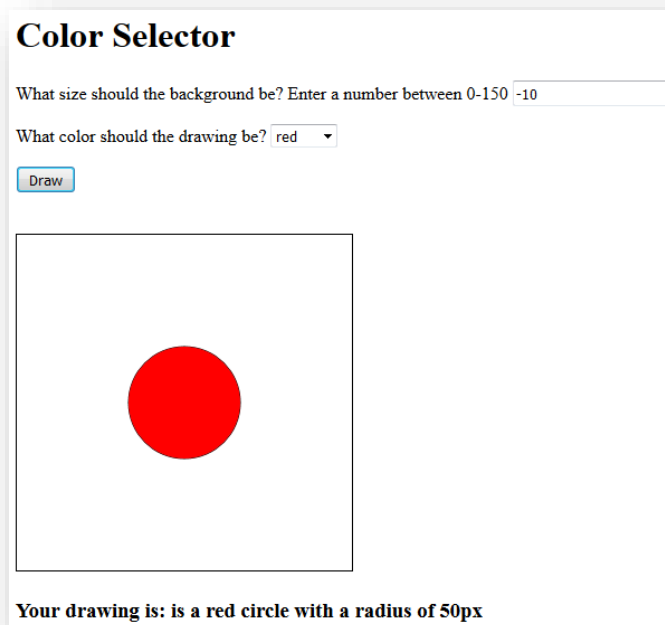
What size should the background be? Enter a number between 0-150

What color should the drawing be?

error: invalid size, setting size to 50

Your drawing is:

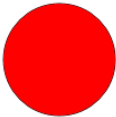
Then after hitting okay:



Color Selector

What size should the background be? Enter a number between 0-150

What color should the drawing be?



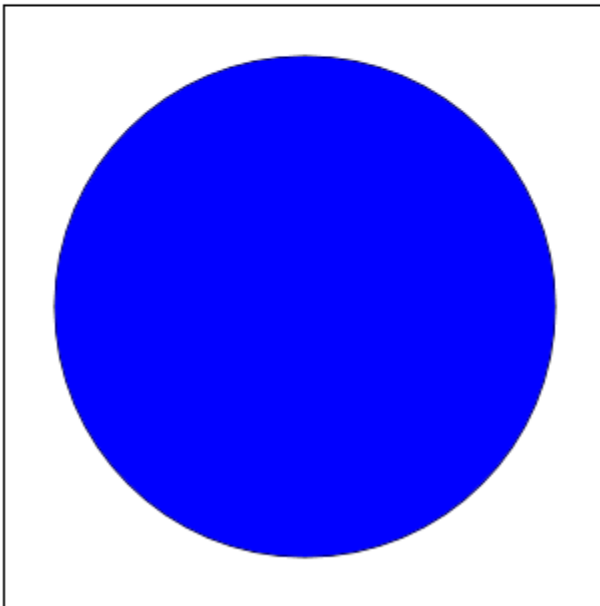
Your drawing is: is a red circle with a radius of 50px

Sample 2: Without error

Color Selector

What size should the background be? Enter a number between 0-150

What color should the drawing be?



Your drawing is: is a blue circle with a radius of 125px

5. When you have completed your web application, demonstrate that it works to the lab assistant or the instructor before you leave the lab.