README FILE Programming Assignment 1 – Part 1 First

Name: Joseph Last Name: Shumway UIN: 830003458

E-mail-address:

Section Number: 504 User Name: joseph.shumway joseph.shumway@tamu.edu

State the Aggie Honor statement:

> I certify that I have listed all the sources that I used to develop the solutions and code to the submitted work.
>
> *On my honor as an Aggie, I have neither given nor received any unauthorized help on this academic work*.
>
> Your Name Joseph Shumway Date 9/10/2021

List any resources used such as webpages (provide URL). Do not mention the textbook and discussions with the Instructor, TA, or Peer Teachers.

People	
Web pages (provide URL)	https://en.cppreference.com/w/cpp/language/enum
Printed material	
Other Sources	

List any known problems/issues with the assignment you are turning in. For example, if you know your code does not run correctly, state that. This should be a short explanation.

N/A

Provide a short description for the solution or pseudocode for the assignment questions.

Made a class for Stress_ball with a << operator override, == operator override, and a default and copy constructor. Also made an enum class for holding colors, and another for holding sizes.

Provide screenshots of two test cases (from Computer Science Linux machine) and show how you compiled the program (Ex: Command Line and IDE).

```
thegr@AERO-PC:/mnt/c/.School/CSCE_221/PA-1/pa1-p1$ make grade
planr eval
[PASS] Default Constructor
  id: constructors.default

[PASS] Parametrized Constructor
  id: constructors.paramterized

[PASS] Function get_color() retrieves size
  id: function.get_color

[PASS] Function get_size() retrieves size
  id: function.get_size

[PASS] Operator ==
  id: operator.equality

[PASS] Operator <<
  id: operator.insertion

Final Results:
  passed: 6/6
  score: 25.00/25.00 ~= 100.0%
```

```
Ball_1: (blue, small)

Ball_2: (green, large)

Ball_3: (red, medium)

Ball_4: (red, medium)

Ball_5: (green, medium)

Ball_6: (blue, medium)

Ball_1 == Ball_2: 0

Ball_3 == Ball_4: 1

[1] + Done
```

```cpp
int main(int argc, char const *argv[])
{
    // parameterized stress balls
    Stress_ball ball_1 = Stress_ball(Stress_ball_colors::blue, Stress_ball_sizes::small);
    Stress_ball ball_2 = Stress_ball(Stress_ball_colors::green, Stress_ball_sizes::large);
    Stress_ball ball_3 = Stress_ball(Stress_ball_colors::red, Stress_ball_sizes::medium);
    Stress_ball ball_4 = Stress_ball(Stress_ball_colors::red, Stress_ball_sizes::medium);

    // random stress balls
    Stress_ball ball_5;
    Stress_ball ball_6;

    // test if stress balls are equal
    bool x = false;
    bool y = false;
    x = (ball_1 == ball_2);
    y = (ball_3 == ball_4);

    // output statements
    cout << "Ball_1: " << ball_1 << endl << endl;
    cout << "Ball_2: " << ball_2 << endl << endl;
    cout << "Ball_3: " << ball_3 << endl << endl;
    cout << "Ball_4: " << ball_4 << endl << endl;
    cout << "Ball_5: " << ball_5 << endl << endl;
    cout << "Ball_6: " << ball_6 << endl << endl;

    cout << "Ball_1 == Ball_2: " << x << endl << endl;
    cout << "Ball_3 == Ball_4: " << y << endl << endl;

    // exit
    return 0;
}
```

Your Name (signature) Joseph Shumway Date 9/10/2021