GCIS 123
Practicum 1
Instructor: Gahyun Park

1. (40%) Create a module named "`Boolean.py`" and add the following functions:

1) `def max_2(x, y):`
   - Return the maximum value of x and y.
2) `def max_3 (x, y, z):`
   - Return the maximum value of x, y, and z.
   - In order to receive full credit, you should only use `max_2` without using the `if` statement.
3) `def grade (score1, score2):`
   - Return a letter grade that is computed based on the specified `score1` and `score2` as follows:

Condition 1	**Condition2**	**Grade**
The average of the scores is at least 90.	Both scores are at least 85.	'A'
	One of the scores is lower than 85.	'B'
The average of the scores is at least 80 and lower than 90.	Both scores are at least 70	'C'
	One of the scores is lower than 70.	'D'
The average of the scores is at least 70 and lower than 80.	Both scores are at least 60	'E'
None of the previous conditions met		'F'

Note that both conditions must be met to get a grade higher than an 'F'.

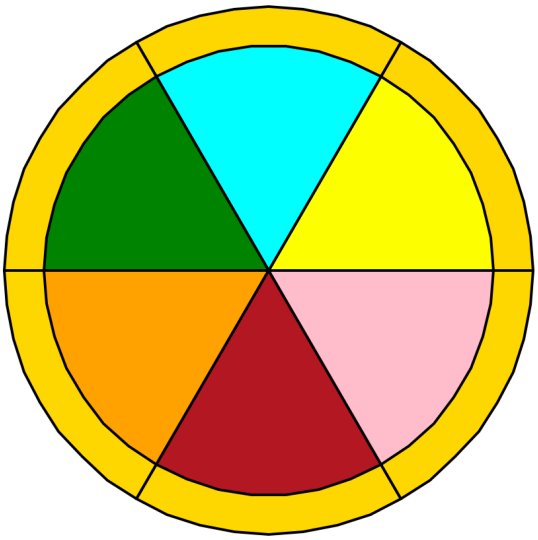
4) You may define a `main` function to manually test the functions you wrote.
5) Call `main` using

```
if __name__ == '__main__':
    main()
```

2. (10%) Crete a test module named "`grade_test.py`" and test the `grade` function.
You will test each of the following calls:

1) `grade(90, 92)` → 'A'
2) `grade(100, 82)` → 'B'
3) `grade(72, 90)` → 'C'
4) `grade(100, 69)` → 'D'
5) `grade(100, 50)` → 'F'

3. (50%) Draw a pizza that has been cut into six equal pieces:



Open the provided "`pizza.py`" module and implement the following functions to it.

1) `def a_piece(x, y, radius, color)`: draws a single piece.
- `(x, y)` is the center of a pizza.
- `radius` is the size of a piece of pizza.
- `color` is used to fill the piece.

2) `def six_pieces(x, y, radius, color)`: draws 6 pieces with the specified `color`.
- `(x, y)` is the center of a pizza.
- `radius` is the size of a piece.
- `color` is the color of the pizza crust.

3) `def six_colorful_pieces(x, y, radius)`: draws 6 pieces with different colors.
- `(x, y)` is the center of the pizza.
- `radius` is the size of a piece.

4) `def a_pizza(x, y, radius, color)`: draws an entire pizza.
- `(x, y)` is the center of the pizza.
- `radius` is the size of the pizza.
- `color` is the color of the pizza crust

5) `def main()`:
A `main` is provided for you to test your functions. You may change the turtle's speed or tracer and comment/uncomment the code in main as you test.