```
11 11 11
 1
 2 File containing class of Die
 3
 4 : Author: Neil Daterao
 5 :note: I affirm that I have carried out the attached
   academic endeavors with full academic honesty,
 6 in accordance with the Union College Honor Code and
   the course syllabus.
 7
 8
 9 import random as r
10
11
12 class Die:
       11 11 11
13
14
       Class for a Die
15
16
17
       def __init__(self, number_of_sides_of_die=6):
18
19
           constructor
           11 11 11
20
21
           self.__num_of_sides = number_of_sides_of_die
22
           self.__current_val = 1
23
24
       def roll(self):
25
26
           Rolls the die to a random side
27
28
           random_num = r.randrange(1, self.
   __num_of_sides)
29
           self.__current_val = random_num
30
31
       def get_value(self):
32
33
           Returns the current value of the side the die
    rolled on
34
35
           return self.__current_val
36
37
       def get_number_of_sides(self):
```

```
38
39
           Return the number of sides of the die
40
           return self.__num_of_sides
41
42
43
44 if __name__ == "__main__":
45
       dice6 = Die(6)
46
       dice12 = Die(12)
       print(dice6.get_value())
47
       print(dice12.get_value())
48
       dice12.roll()
49
50
       dice6.roll()
       print(dice6.qet_value())
51
       print(dice12.get_value())
52
53
       test_die = Die(0)
       test_die1 = Die(3)
54
       print(test_die.get_number_of_sides())
55
       print(test_die1.get_number_of_sides())
56
57
```

```
1 from die import *
 2 """
 3 Game comparing two die until one die is twice the
   value of the other
   11 11 11
 4
 5
 6 def main():
       11 11 11
 7
 8
       Game comparing two die
 9
10
11
       die6 = Die()
12
       die12 = Die(12)
       die6.roll()
13
14
       die12.roll()
15
16
       while (die6.get_value() != (2 * die12.get_value
   ())) and ((2 * die6.get_value()) != die12.get_value
   ()):
17
           print("Die of 6 sides value is:", die6.
   get_value())
18
           print("Die of 12 sides value is:", die12.
   qet_value())
19
           user_press_return = input("Press return to
   roll again \n")
20
21
           die6.roll()
           die12.roll()
22
23
24
       print("You won! Game Over!")
       print("Die of 6 sides value is:", die6.get_value
25
   ())
26
       print("Die of 12 sides value is:", die12.
   qet_value())
27
28
29 if __name__ == "__main__":
30
       main()
31
```