## **Assignment: 04**

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## # Die program

```
python > Assignments > labAssignment4 > labAssignment4 > 💠 dice_program.py > 😭 Die > 🖯 roll
       import random
       from dataclasses import dataclass
       @dataclass
       class Die:
          __value:int = 1
          @property
          def value(self):
               return self.__value
 11
           def roll(self):
 12
               self.__value = random.randrange(1, 7)
 13
           def __str__(self):
               return str(self.__value)
       class Dice(list):
           def __init__(self):
           self.__list = []
 21
           def addDie(self, die):
               self.__list.append(die)
           def rollAll(self):
               for die in self.__list:
                   die.roll()
```

```
python > Assignments > labAssignment4 > labAssignment4 > 💠 dice_program.py > ...
      class Dice(list):
           aer rollAll(selt):
                   die.roll()
           def __iter__(self):
               for die in self._list:
                   vield die
      dice = Dice()
      dice.append(Die()) # uses method from list class
      dice.append(Die()) # uses method from list class
      dice.rollAll()
      die = dice[0] # uses operators from list class
      dice.insert(0, Die()) # uses method from list class
      # dice.pop() # uses method from list class
      print(dice)
      print("Die value:", die.value)
      print("Dice count:", len(dice))
PROBLEMS
                   DEBUG CONSOLE
                                  TERMINAL
                                            PORTS
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments> & C:,
hon.exe "c:/Users/sthas/OneDrive - Lambton College/lambton/Term 2/Assignments/
[Die(_Die__value=1), Die(_Die__value=1)]
Die value: 1
Dice count: 3
PS C:\Users\sthas\OneDrive - Lambton College\lambton\Term 2\Assignments>
```