**SOURCE CODE:**

**MyLib.py:**

**In this program, Candles class with attributes color, height and price are created.**

**Then ScentedCandle class is created which inherits from parent class Candles.**

class Candles:  
 def \_\_init\_\_(self, color, height):  
 self.color = color  
 self.height = height  
  
 def getColor(self):  
 return self.color  
  
 def getHeight(self):  
 return self.height  
  
 def getPrice(self):  
 return self.price  
  
 def setColor(self, color):  
 self.color = color  
  
 def setHeight(self, height):  
 self.height = height  
 self.price = (self.height / 5) \* 2  
  
  
class ScentedCandles(Candles):  
 def \_\_init\_\_(self, color, height, scent):  
 Candles.\_\_init\_\_(self, color, height)  
 self.scent = scent  
  
 def getScent(self):  
 return self.scent  
  
 def setScent(self, scent):  
 return self.scent  
  
 def setHeight(self, height):  
 self.height = height  
 self.price = (self.height / 7) \* 3

**DemoCandles.py:**

**In this application program that instantiates an**

**object of each type from myLib and display the details.**

from MyLib import Candles, ScentedCandles  
  
print("\*\*\*\*\*\*\*\*\*\*Candles object\*\*\*\*\*\*\*\*\*")  
candle1 = Candles("Magenta", 8)  
candle1.setHeight(8)  
print("The details of the candle are:", "\nHeight:", candle1.getHeight(), "\ncolor:", candle1.getColor(),  
 "\nPrice:", candle1.getPrice())  
  
  
print("\n\*\*\*\*\*\*\*\*\*\*ScentedCandles object\*\*\*\*\*\*\*\*\*")  
candle2 = ScentedCandles("Red", 8, "Rose")  
candle2.setHeight(8)  
print("The details of the ScentedCandle are:", "\nHeight:", candle2.getHeight(), "\ncolor:", candle2.getColor(),  
 "\nPrice:", candle2.getPrice(), "\nScent:", candle2.getScent())

**Output:**

**/Users/bhanuchanderkureti/PycharmProjects/python\_projects/venv/bin/python /Users/bhanuchanderkureti/PycharmProjects/python\_projects/DemoCandles.py**

**\*\*\*\*\*\*\*\*\*\*Candles object\*\*\*\*\*\*\*\*\***

**The details of the candle are:**

**Height: 8**

**color: Magenta**

**Price: 3.2**

**\*\*\*\*\*\*\*\*\*\*ScentedCandles object\*\*\*\*\*\*\*\*\***

**The details of the ScentedCandle are:**

**Height: 8**

**color: Red**

**Price: 3.4285714285714284**

**Scent: Rose**

**Process finished with exit code 0**

**Output 2:**

from MyLib import Candles, ScentedCandles  
  
print("\*\*\*\*\*\*\*\*\*\*Candles object\*\*\*\*\*\*\*\*\*")  
candle1 = Candles("violet", 14.6)  
candle1.setHeight(14.6)  
print("The details of the candle are:", "\nHeight:", candle1.getHeight(), "\ncolor:", candle1.getColor(),  
 "\nPrice:", candle1.getPrice())  
  
  
print("\n\*\*\*\*\*\*\*\*\*\*ScentedCandles object\*\*\*\*\*\*\*\*\*")  
candle2 = ScentedCandles("white", 14.6, "Safran")  
candle2.setHeight(8)  
print("The details of the ScentedCandle are:", "\nHeight:", candle2.getHeight(), "\ncolor:", candle2.getColor(),  
 "\nPrice:", candle2.getPrice(), "\nScent:", candle2.getScent())

**\*\*\*\*\*\*\*\*\*\*Candles object\*\*\*\*\*\*\*\*\***

**The details of the candle are:**

**Height: 14.6**

**color: violet**

**Price: 5.84**

**\*\*\*\*\*\*\*\*\*\*ScentedCandles object\*\*\*\*\*\*\*\*\***

**The details of the ScentedCandle are:**

**Height: 8**

**color: white**

**Price: 3.4285714285714284**

**Scent: Safran**

**Process finished with exit code 0**