**Exercise :** 13

**Date :** 23/11/2020

**Aim :**

To create a Python program to demonstrate a trade of shop with applied conditions.

**Program :**

class Apparel:

counter=100

def \_\_init\_\_(self,price,item\_type):

Apparel.counter+=1

self.\_item\_id=item\_type[0]+str(Apparel.counter)

self.\_price=price

self.\_item\_type=item\_type

def calc\_price(self):

self.\_price+=self.\_price\*0.05

def get\_item\_id(self):

return self.\_item\_id

def get\_price(self):

return self.\_price

def get\_item\_type(self):

return self.\_item\_type

def set\_price(self,price):

self.\_price=price

return self.\_price

class Cotton(Apparel):

def \_\_init\_\_(self,price,discount):

super().\_\_init\_\_(price,'Cotton')

self.\_discount=discount

def calc\_price(self):

super().calc\_price()

price=self.get\_price()

price-=price\*(self.\_discount/100)

price+=price\*0.05

self.set\_price(price)

return price

def get\_discount(self):

return self.\_discount

class Silk(Apparel):

def \_\_init\_\_(self,price):

super().\_\_init\_\_(price,'Silk')

self.\_points=None

def calc\_price(self):

super().calc\_price()

if(self.get\_price()>10000):

self.\_points=10

else:

self.\_points=3

return self.set\_price(self.get\_price()+(self.get\_price()\*0.1))

def get\_points(self):

return self.\_points

silk=int(input())

cotton=int(input())

discount=int(input())

a=Silk(silk)

print(a.calc\_price())

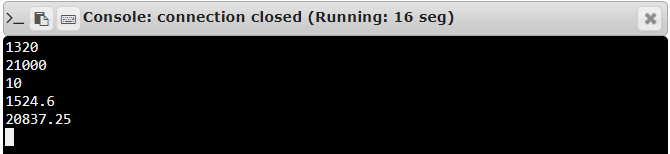
b=Cotton(cotton,discount)

print(b.calc\_price())

**Link :**

<http://103.53.53.18/mod/vpl/forms/submissionview.php?id=328&userid=1663>

**Output :**



**Result :**

Thus, the program is executed and the required output is displayed.