AIM:

The aim is to perform vaccum cleaner using python program

Program:

class VacuumCleaner:

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

self.location = 0 # 0 represents location A, 1 represents location B

self.environment = ['Dirty', 'Dirty'] # Initial dirt condition in both locations

def sense(self):

return self.environment[self.location]

def clean(self):

self.environment[self.location] = 'Clean'

def move(self):

if self.location == 0:

print("Moving to location B")

self.location = 1

else:

print("Moving to location A")

self.location = 0

def run(self):

print("Starting vacuum cleaner...")

for \_ in range(2):

dirt\_condition = self.sense()

if dirt\_condition == 'Dirty':

print("Cleaning dirt...")

self.clean()

print("Moving to next location...")

self.move()

print("Cleaning complete!")

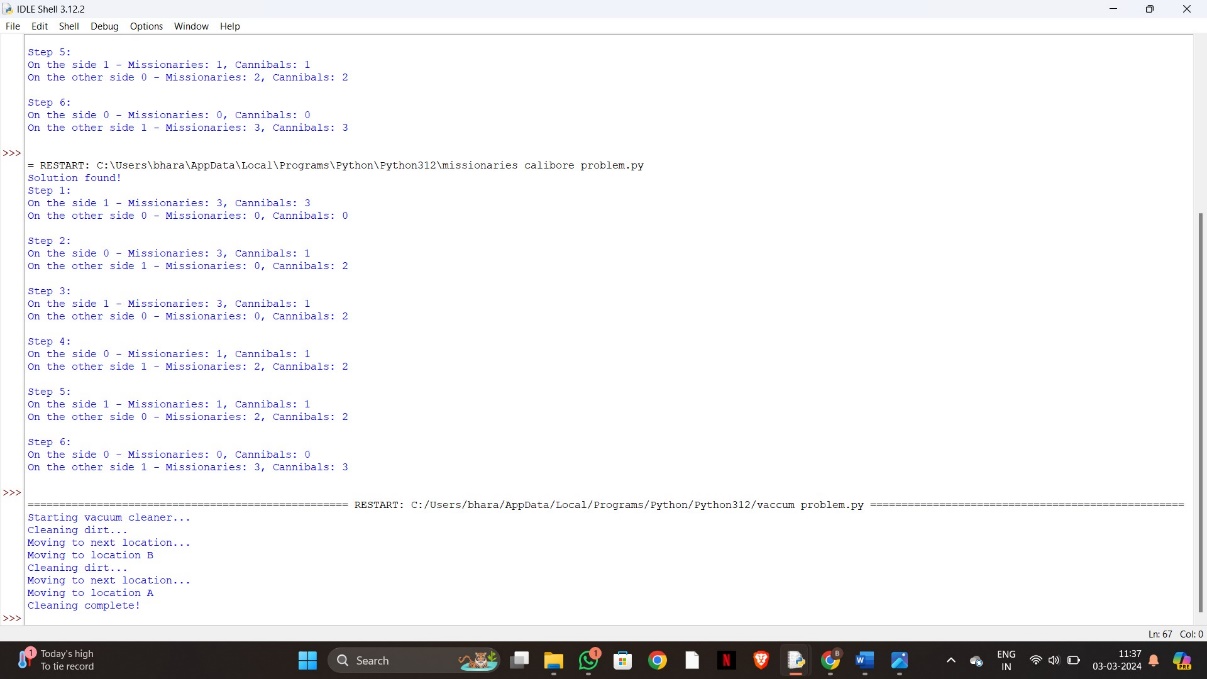
if \_\_name\_\_ == "\_\_main\_\_":

vacuum = VacuumCleaner()

vacuum.run()

INPUT:

OUTPUT:



RESULT:

To perform vaccum cleaner using python program is successfully completed