**Practical 2**

**Aim:**

**Write a python program to find the probability of given problem:**

1. **Find the probability of drawing two kings from a deck****.**
2. **A math teacher gave her class tow tests, 25 % of the class passed both tests and 42 % of the class passed the first test. Find the probability, number of students passed the second test.**

**Code:**

**a)**

total\_cards = 52

no\_of\_king = int(input('Enter the number of kings: '))

def find\_prob(no\_of\_king):

king, c, prob = 4, total\_cards, 1

while(no\_of\_king > 0):

prob \*= king/c

no\_of\_king -= 1

king -= 1

c -= 1

return prob

if(no\_of\_king > 0 and no\_of\_king <= 4):

prob = find\_prob(no\_of\_king)

a = round(prob\*100, 6)

print(

f'Probability of drawing {no\_of\_king} kings from the deck is {a}%')

else:

print(f'Enter valid number between 1-4')

**b)**

passed\_in\_both = int(input('Percentange of students passed in both test: '))

either\_test = int(

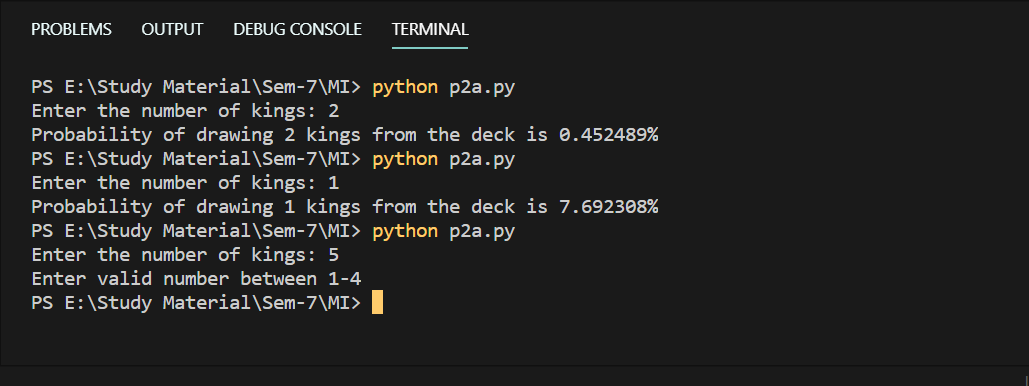
input('Percentage of student passed in either of the test: '))

passed\_in\_remaining = passed\_in\_both / either\_test

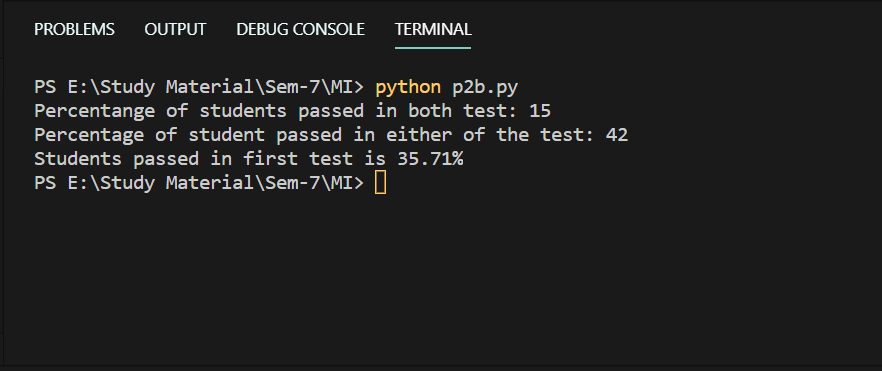
print(f'Students passed in first test is {round(passed\_in\_remaining\*100,2)}%')

**Output:**

**a)**

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**b)**

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