

```

list1=["Ramesh", "Suresh", "Mahesh", "Ali", "Jacob", "Saritha"]
list2=["Ali", "Mukesh", "Mahesh", "Jacob", "Sai", "Sarita"]
l=[]
for i in list1:
    for n in list2:
        if i==n:
            l.append(i)
            break
print("common names in both lists", l)

        common names in both lists ['Mahesh', 'Ali', 'Jacob']

common_string="Ramesh Suresh Mohit"
name_list=common_string.split()
age_dict={"Ramesh":25, "Suresh":22, "Mohit":26}
tot_age=0
for i in name_list:
    if i in age_dict:
        tot_age=tot_age+age_dict[i]
print("list of names:", name_list)
print("total age:", tot_age)

        list of names: ['Ramesh', 'Suresh', 'Mohit']
        total age: 73

p_paracetamol=35
p_azithromycin=49
p_vitamin_c=33
q_paracetamol=2
q_azithromycin=3
q_vitamin_c=5

tot_cost_paracetamol=p_paracetamol*q_paracetamol
tot_cost_azithromycin=p_azithromycin*q_azithromycin
tot_cost_vitamin_c=p_vitamin_c*q_vitamin_c

tot_med=(tot_cost_paracetamol+ tot_cost_azithromycin+ tot_cost_vitamin_c)
amt_by_patient=2000
amt_refunded=amt_by_patient-tot_med

print(f"total cost of paracetamol {tot_cost_paracetamol}")
print(f"total cost of azithromycin {tot_cost_azithromycin}")
print(f"total cost of vitamin_c {tot_cost_vitamin_c}")
print(f"total cost of all medicines {tot_med}")
print(f"amount refunded to the patient {amt_refunded}")

        total cost of paracetamol 70
        total cost of azithromycin 147
        total cost of vitamin_c 165
        total cost of all medicines 382
        amount refunded to the patient 1618

text=input("Enter a sentence")
def count_vowels(text):
    vowels=set("AEIOUaeiou")
    vowel_count=0
    for i in text:
        if i in vowels:
            vowel_count=vowel_count+1
    return vowel_count
total=count_vowels(text)
print(f"the sentence {text} has {total} vowels")

        Enter a sentenceI am learning python
        the sentence I am learning python has 6 vowels

age=int(input("Enter your age"))
waiting_year=0
if age>=18:
    print("Congrats! You are eligible to vote")
else:
    waiting_year=18-age
    print(f"return after {waiting_year} years")

        Enter your age15
        return after 3 years

A=[1,2,3,4,5]
l=[]

```

```
a_sum=0
for i in A:
    a_sum=a_sum+i
    l.append(a_sum)
print(l)

[1, 3, 6, 10, 15]

text=input("Enter a sentence")
words=text.split()

def starts_vowel(word):
    vowels="AEIOUaeiou"
    return word[0] in vowels
def encode_word(word):
    if starts_vowel(word):
        return word[0]+word[-1]
    else:
        return ''.join(char for char in word if char not in "AEIOUaeiou")
encoded_words=[encode_word(word) for word in words]
encoded_text=' '.join(encoded_words)
print("Encoded message", encoded_text)

Enter a sentenceThe quick brown fox used to sleep inside this box
Encoded message Th qck brwn fx ud t slp ie ths bx
```