1. Addition of two binary strings

With Inbuilt function:-

```
a=input()
b=input()
ans=bin(int(a,2) + int(b,2))
print(str(ans[2:]))
```

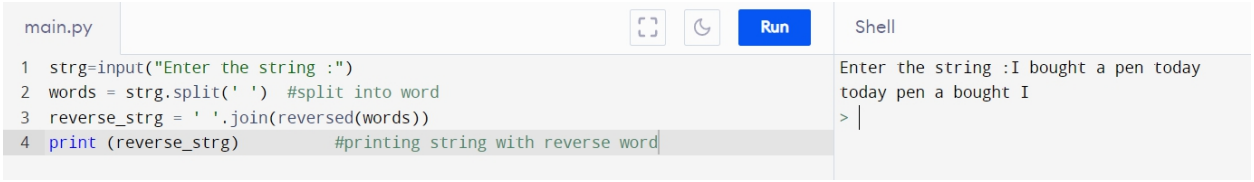
Without inbuilt function:-

```
a=input("enter binary string1 :")
b=input("enter binary string2 :")
result=""
i=len(a)-1
j=len(b)-1
carry=0
while i >= 0 or j >= 0:
    sum = carry
    if i >=0:
        sum = sum+ord(a[i]) - ord('0')
    if j >= 0:
        sum = sum+ord(b[j]) - ord('0')
    i,j=i-1,j-1
    if sum > 1:
```

```
        carry = 1
    else:
        carry=0
    result = result + str(sum%2)
if carry != 0:
    result = result + str(carry)
print(result[::-1])
```

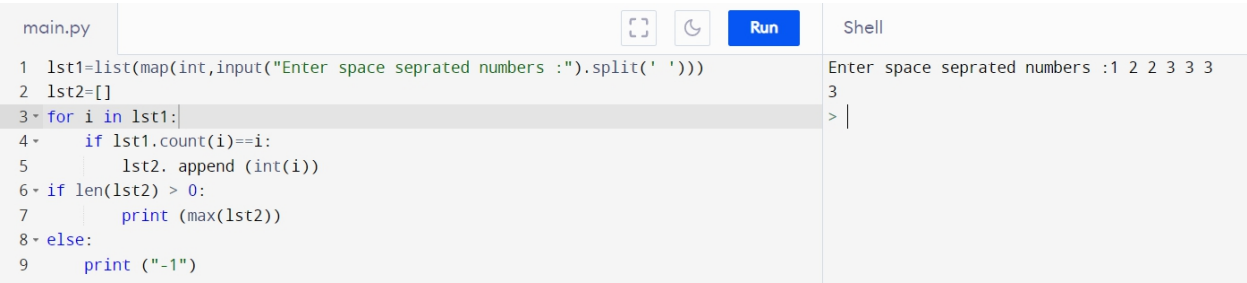
2. **Reverse words in given string**

```
strg=input("Enter the string :")
words = strg.split(' ')  #split into word
reverse_strg = ' '.join(reversed(words))
print (reverse_strg)          #printing string with reverse word
```



3. Largest lucky number(frequency)

```
lst1=list(map(int,input("Enter space seprated numbers :").split(' ')))
lst2=[]
for i in lst1:
    if lst1.count(i)==i:
        lst2. append (int(i))
if len(lst2) > 0:
        print (max(lst2))
else:
    print ("-1")
```



4.fake calculator (addition of two numbers without carry)

```
import math
a= int(input("Enter number 1:"))
b = int(input("Enter number 2:"))
```

```
sum1 = 0
result = 0
place = 1
while (a or b) :
    sum1 = ((a % 10) + (b % 10))
    sum1 = sum1 % 10              # Neglect carry
    result = result + (sum1 *place)
    a = math.floor(a / 10)
    b = math.floor(b / 10)
    place = place* 10   # Update place value
print (result)
```