

#1. Write a Python program to find the reverse of a string. Expected Output (for input "hello"):
#olleh

```
getstr=input("Enter String:")  
rev=getstr[::-1]  
print("Reversed String:",rev)
```

Enter String: hello

Reversed String: olleh

#2. Write a Python program to generate the Fibonacci sequence up to 10 terms.

#Expected Output:

#0 1 1 2 3 5 8 13 21 34

```
def findfibno(n):  
    fibarrlst= []  
    a,b = 0,1  
    for f in range(n):  
        fibarrlst.append(a)  
        a, b= b,a+b  
    return fibarrlst
```

```
findfibno(10)
```

[0, 1, 1, 2, 3, 5, 8, 13, 21, 34]

#3. Write a Python function to check if a given string is a palindrome.

#Expected Output (for input "madam"):

#madam is a palindrome

```
findpalstr=input("String:")  
revpal=findpalstr[::-1]  
print("String:",revpal)  
if (findpalstr==revpal):  
    print(findpalstr,"is a Palindrome")  
else:  
    print(findpalstr,"not a Palindrome")
```

String: madam

String: madam

madam is a Palindrome

#4. Write a Python program to count the number of vowels in a given string.

#Expected Output (for input "education"):

#Number of vowels: 5

```
def findvow(text):  
    vowels="aeiou"  
    count=0
```

```
    for char in text:
        if char in vowels:
            count+=1
    return count

findvow("education")

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#5. Write a Python program to remove duplicates from a list.
#Expected Output (for input [1, 2, 2, 3, 4, 4, 5]):

#[1, 2, 3, 4, 5]
def remove_duplicates(lst):
    return list(set(lst))

print(remove_duplicates([1, 2, 2, 3, 4, 4, 5]))

[1, 2, 3, 4, 5]
```