**1.**

#P1. Write a program to reverse the string

s = "MSys Technologies"

y=''

for i in range(len(s)-1,-1,-1):

    y=y+s[i]

print(y)

**OR**

s = "MSys Technologies"

s=s[::-1]

print(s)

**2.**

#P2. write a program to reverse the order of words:

#input1 = "Learning python is very easy"

#output = "easy very is python Learning"

input = "Learning python is very easy"

l=input.split(' ')

#print(l)

l=l[::-1]

op=" ".join(l)

print(op)

**3.**

#P3. Write a program to perform the following task?

# input2 = "One two three four five six seven"

#output2 = "One owt three ruof five xis seven"

input = "One two three four five six seven"

l=input.split(' ')

for i in range(1,len(l),2):

    l[i]=l[i][::-1]

op=' '.join(l)

print(op)

**4.**

#P4. Write a program to reverse internal content of each word:

# s = "MSys Technologies Software Company"

#output = "sySM seigolonhceT erawtfoS ynapmoC"

s = "MSys Technologies Software Company"

l=s.split(' ')

for i in range(len(l)):

    l[i]=l[i][::-1]

op=' '.join(l)

print(op)

**5.**

#P5. Write a program to print characters at the odd position and even position for a given string

# s1 = "MSys Technologies Software Company"

s1 = "MSys Technologies Software Company"

def oddchar(s):

    print("printing odd positioned(not index) characters")

    for i in range(0,len(s),2):

        print(s[i],end=' ')

    print()

def evenchar(s):

    print("printing even positioned(not index) characters")

    for i in range(1,len(s),2):

        print(s[i],end=' ')

oddchar(s1)

evenchar(s1)

**6.**

#P6. write a program to sort the characters of the string as first alphabet symbols followed by numeric values

x='aassw23<4/?5#$R>DE#$R,D#$1.3'

a=''

n=''

s=''

for i in x:

    if i.isalpha(): # or {64<ord(i)<91 or 96<ord(i)<123}

        a=a+i

    elif i.isnumeric():

        n=n+i

    else:

        s=s+i

print(a+n+s)

**7.**

#P7. write a program for the following requirement:

# s1 = "a4b3c2"

#output = "aaaabbbcc"

s1 = "a4b3c2"

op=''

for i in range(0,len(s1)-1,2):

    op=op+(s1[i]\*int(s1[i+1]))

print(op)

**8.**

#P8. Write a program to perform the following activity

# s = "a4k3b2"

#output = "aeknbd"

s = "a4k3b2"

op=''

for i in range(0,len(s)-1,2):

    op=op+s[i]+ chr(ord(s[i])+int(s[i+1]))

print(op)

**9.**

#P9. Write a program to remove duplicate elements from a given string:

# s = "ABCDABBCDABBBCCCDDEEEF"

#out = "ABCDEF"

s = "ABCDABBCDABBBCCCDDEEEF"

op=''

for i in s:

    if i in op:

        continue

    op=op+i

print(op)

**10.**

#P10. program to merge characters of 2 strings into single string by taking characters alternatively

#input:

# s1 = "ravi"

# s2 = "teja"

#output = "rtaevjia"

s1 = "ravi"

s2 = "teja"

s3=''

i,j=0,0

while i<len(s1) and j<len(s2):

    s3=s3+s1[i]+s2[j]

    i+=1

    j+=1

s3=s3+ s1[i:] # To add remaining characters of s1(if any) to s3

s3=s3+ s2[j:] # To add remaining characters of s2(if any) to s3

print(s3)

**11.**

#P11. Write a program to find the number of occurances of each character present in the given string:

# input1 = "ABCABCABBCDE"

#output = A-3, B-4, C-3, D-1, E-1

input = "ABCABCABBCDE"

x=''

for i in input:

    if i not in x:

        x+=i

        print(f"{i} - {input.count(i)}",end=", ")

print()