**ASSIGNMENT 4**

1)

s1=input("Enter string:")

s2=s1

if s2==s1[::-1]:

print("Palindrome")

else:

print("Not palindrome")

2)

s=input("Enter a string:")

words=s.split(" ")

new\_s=" ".join(words[::-1])

print("Reversed string :",new\_s)

3)

name=input("enter a name")

s1=name[0].upper()

for i in range(1,len(name)):

if name[i]==' ':

s2=name[i+1].upper()

s=s1+s2

print("Name initials:",s)

**QUESTIONAIRES**

1) The advantages are:

1) String slicing creates the substring of the actual string without altering the actual string.

2) This also makes the use of negative index available easily for traversing backwards through the string.

2) We cannot directly replace any character in a string as the elements are immutable. That is the elements cannot be updated once the string is created. One solution can be the use of string slicing and use that for updating, deleting, inserting elements in the string. Another solution is that we split the string into a list of substring based on some element and then we can do the updation and convert back to a string.

3) Negative indexing is used for accessing the string from the last element of the string without knowing the length of the same. This is a very handy method in Python.