**Question 1**

base = "Programming"

reverse\_base = base[: : -1]

print(f"Reverse Base of {base} : {reverse\_base} ")

**Question 2**

name = input("Enter your name : ")

name\_parts = name.split()

initials = ' '

for part in name\_parts:

initials += part[0].upper() + " . "

print(f" {initials [: -1]}" )

**Question 3**

def is\_palindrome(text):

text = text.lower()

return text == text[::-1]

?string2 = input("Enter a string to check for palindrome: ")

if is\_palindrome(string2):

print(f"'{string2}' is a palindrome.")

else:

print(f"'{string2}' is not a palindrome.")

**Question 4**

sentence = input("Enter a sentence: ")

word\_count = len(sentence.split())

print(f"The sentence has {word\_count} words.")

**Question 5**

string3 = "This is a string and it is an example."

modified\_string = string3.replace("is", "was")

print(f"Modified string: {modified\_string}")