1. Answer-

n=input(“Enter a sentence to reverse:”)

def rev(n):

result=n.split(“ “)

for word in res:

word=word[::-1]

result=“”.join(word)

print(res, end=“ “)

rev(n)

2. Answer,

Class answer(object):

def add(s, n, t):

ans = [ ]

for x in range(len(n) - 1):

for y in range(x + 1, len(n)):

k = n[x] + n[y]

if k == t:

ans.append((x, y))

return ans

print(answer().add([1,2,3,4], 7))

3. Answer-

Num = input(‘Enter a number to check palindrome: ’)

Def fun():

If num == num[::-1]:

print (“yes, it's a palindrome”)

Else:

print(“No, it's not a palindrome”)

fun()

4. Answer-

Def longest\_Common\_Prefix(str1):

If not str1:

return” “

short = min(str1, key= len)

for i, char in enumerate(short):

for others in str1:

If other[i] != char:

Return short[:i]

return short

print(longest\_common\_Prefix([“Michael, ‘Michelle’, “mitch”]))

5. Answer-

import math

n = int(input(“Enter a number : “))

pi = 0

for i in range(n):

term = ((-1) \*\* r) \* (4 / (2 \* r + 1))

pi += term

print(“The calculated value of pi =“, pi)

print(“Actual pi value =“, math.pi)

print(“Difference =“, math.pi - pi)

6. Answer,

import math

def newton method(x, step):

p=1

guess = x/2

while p <= step:

guess = (guess + (x/guess)) / 2

p+=1

return guess

Value = newton method(25, 5)

print (value,’ \n Difference with square root of x: ‘, value - (math.sqrt(10)))