Slip 5:

def falsePosition(f, x0, x1, e):

x0 = float(x0)

x1=float(x1)

e=float(e)

if f(x0) \* f(x1) > 0.0:

print('gives guess value do not bracket the root')

print('try again with different values')

Else:

step = 1

condition = True

while condition:

x2=x0-(x1-x0) f(x0)/(f(x1)-f(x0)

print('iteration %d, x2=%0.6f and f(x2)=%0.6f' % (step, x2, f(x2)))

if f(x0) \* f(x2) < 0:

x1=x2

else:

x0=x2

step step +1

condition = abs(f(x2)) > e

print('\nRequired root is: %0.8f' % x2)

def f(x):

return x\*\*3-2\*x-5

>>>falsePositon(f,2,3,0.00001)

Que 2:

A:

def s38(a,b,n,f):

h=float(b-a)/n

I=f(a)+f(b)

for i in range(1,n):

k = a + i\*h

if i% 3==0:

I=I+2\*f(k)

Else:

I=I+3\*f(k)

I=(3\*h/8)\*I

return I

>>> def f(x):

return x\*\*3

>>> s38(1, 5, 6, f)

B:

def f(s)

return s[-1]+s[1:-1]+s[0]

>>>f("radha")

output: 'aadhr'

Q3:

A:

def bold(func):

def wrapper():

return f"<b>{func()}</b>"

return wrapper

def italic(func):

def wrapper():

return f"<i>{func()}</i>"

return wrapper

def underline(func):

def wrapper():

return f"<u>{func()}</u>"

return wrapper

@bold

@italic

@underline

def text():

return "Hello, World!"

print(text()) # Output: <b><i><u>Hello, World!</u></i></b>