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Question 1

Assignment 3

The due date for submitting this assignment has passed. **Due on 2020-02-19, 23:59 IST.** As per our records you have not submitted this assignment.

 Which of the following displays a code which iterates from numbers 1 to 100, displays "fizz" if 1 point the number is divisible by a but not b, displays

"buzz" if the number is divisible by b but not a and displays "fizzbuzz" if the number is divisible by both a and b. a and b are

inputs taken from the user.

```
a = int(input("Enter the value of a"))
b = int(input("Enter the value of b"))
for i in range(1,101):
    if(i%a == 0):
        print("fizz")
    if(i%b == 0):
        print("buzz")
    else:
        print("fizzbuzz")
```

```
a = int(input("Enter the value of a"))
b= int(input("Enter the value of b"))
for i in range(1,101):
   if(i\%a == 0):
      if (i%b!=0):
        print ("fizz")
6
   if(i\%b==0):
      if (i%a!=0):
        print("buzz")
     else:
10
        print("fizzbuzz")
11
a = int(input("Enter the value of a"))
b= int(input("Enter the value of b"))
for i in range(1,101):
    if(i\%a == 0):
      if (i%b!=0):
5
        print ("fizz")
   if(i\%b==0):
      if (i%a!=0):
        print("buzz")
  else:
     print("fizzbuzz")
```

```
a = int(input("Enter the value of a"))
b= int(input("Enter the value of b"))
for i in range(1,101):
    if(i%a==0):
        if(i%b!=0):
        print("fizz")
    else:
        if(i%a!=0):
        print("buzz")
    else:
        print("fizzbuzz")
```

No, the answer is incorrect. Score: 0

No, the answer is incorrect.

Score: 0

Accepted Answers:

ac.in/noc20_cs35/unit?unit=39&assessment=262

2/

The Joy of Computing using Python - - Unit 5 - Week 3

Question 2

Assignment 4

The due date for submitting this assignment has passed. Due on 2020-02-26, 23:59 IST.

As per our records you have not submitted this assignment. 1) What does the check_magic() function in the following code do 1 point def check_magic(): num = [1, 2, 3, 4, 5, 6, 7, 8, 9]a00 = 0a01 = 0a10 = 0a11 = 0for i in range (0,9): for j in range (0,9): for k in range (0,9): for 1 in range (0,9): a00=num[i] a01=num[j] a10=num[k] a11=num[1] 1 = [a00, a01, a10, a11]print a00, '\t', a01, '\n', a10, '\t', a11 18

displays all 2 x 2 matrices where elements are from 1 to 9.

displays all 2 × 2 matrices where elements are from 1 to 9.

displays all 2 x 2 matrices where elements are from 1 to 9 but no element is repeated

.in/noc20_cs35/unit?unit=59&assessment=263

The Joy of Computing using Python - - Unit 6 - week 4

- displays magic squares of size 2
- none of the above

No, the answer is incorrect.

Score: 0

Accepted Answers:

displays all 2 × 2 matrices where elements are from 1 to 9.

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Question 3

```
1 point
3) Leap years are the years
      1. which divisible by 4 but not divisible by 100, and, those
      divisible by 400
   Which of the following code does not represent a code displaying all the leap years from 1 to 2000.
  d4 = []
  _2 d100 = []
  d400 = []
  4 for i in range(1,2001):
        if (i\%4==0):
          d4.append(i)
        if (i\%100==0):
          d100.append(i)
        if (i \%400==0):
          d400.append(i)
    1y = []
     for each in d4:
        if each not in d100:
          ly.append(each)
     for each in d400:
       ly.append(each)
  17 print (ly)
```

```
1 \ 1y = []
 _{2} for i in range (1,2001):
      if (i\%4==0):
         if (i %100!=0):
           ly.append(i)
        else:
           if (i %400==0):
              ly.append(i)
 print(ly)
  1 1y = []
 2 for i in range(1,2001):
      if (i \%400==0):
         ly . append(i)
      else:
         if (i\%4==0):
            ly.append(i)
 s print(ly)
  1 1y = []
  2 for i in range(1,2001):
      if (i\%400==0 \text{ or } (i\%100!=0 \text{ and } i\%4==0)):
         ly . append(i)
  5 print(ly)
No, the answer is incorrect.
Score: 0
         No, the answer is incorrect.
         Score: 0
         Accepted Answers:
          1 ly = [
            for i in range (1,2001):
              if (i \%400==0):
                 ly . append(i)
        eı
              else:
                 if(i\%4==0):
                   ly.append(i)
       s print(ly)
```

Question 4

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10)Assume a drunkard whose movement is defined on the number line, i.e. he can either move 1 point forward or backward. Assume he is

standing at a position p. He takes 2 steps forward followed by 4 steps backward. He falls into the pit as soon as he steps

on the position zero. Which of the following codes correctly represents his walk? A.

```
p=int(input())
while (p >0):
    p=p+2
    print("Location =", p)
    p=p-4
    print("Location =", p)
print (" Fell in pit at location ", p)
p=int(input())
while (p >0):
    p=p-2
    print("Location =", p)
    p=p+4
    print("Location =", p)
print ("Fell in pit at location", p)
p=int(input())
while (p >0):
    for i in range (2):
        p=p+1
         print("Loc = ", p)
```

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```
if(p == 0):
                     break
      for i in range (4):
           p=p-1
           print("Loc = ", p)
           if(p == 0):
               break
 print ("Fell in pit at location", p)
 none of these
No, the answer is incorrect.
Score: 0
Accepted Answers:
p=int(input())
while (p >0):
    for i in range (2):
         p = p + 1
          print("Loc = ", p)
          if(p == 0):
                   break
    for i in range (4):
         p=p-1
          print("Loc = ", p)
          if(p == 0):
              break
print("Fell in pit at location", p)
```

Question 5

s get_gates()

- creates a list where two random elements are 'c' and the other element is 'g'
- creates a list where two random elements are 'g' and the other element is 'c'
- creates a list where one random elements is 'c' and the other element is 'g'
- none of the above

1) What does the following code do?

No, the answer is incorrect.

Score: 0

Accepted Answers:

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No, the answer is incorrect.

Score: 0

Accepted Answers:

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The Joy of Computing using Python - - Unit 7 - Week 5

creates a list where two random elements are 'c' and the other element is 'g'

Question 6

```
8)
          def find (list1, num):
              for each in list1:
                 if (each !=num):
                   print (each)
                 else:
                   break
          t =[]
          for i in range(100000):
              t.append(i)
          12 find (t,99999)
   The above code generates numbers from
  0 to 99999
  0 to 100000
  0 to 99998
 1 to 99998
```

No, the answer is incorrect.

Accepted Answers: 0 to 99998

Score: 0

telegram group- t.m

```
t.me/getpytho (This link will be opened only in Goggle Crome)1) Predict the output
```

```
1 = [[1,2,3],[4,5,6],[7,8,9]]
         for j in range(3):
             if(f == 1):
               for i in range(3):
                 print(1[i][j], end=" ")
            if(f==0):
               for i in range(2,-1,-1):
                 print([[i][j],end=" ")
         10
                 f = 1
 741147258852369963
 147258369
 147852369
 147741258852369963
No, the answer is incorrect.
Score: 0
Accepted Answers:
147741258852369963
```

Question 8

4) Which of the following libraries is required to work with Google maps in Python?

gplot
googleplot
gmplot
none of these

No. the answer is incorrect.

Score: 0
Accepted Answers:
gmplot

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5) Which of the following codes represent a correct version of a board game where the user has **1 point** to move from block 1 to block 100?

The game initialises only when the user gets a 1 or 6 on the dice and ends once he reaches 100 or gets a number which makes

him reach beyond 100 (i.e. the player wins if he is at 99 and gets a 4).

```
import random
2 def play(psn):
    r = random. randint(1,6)
    if(psn==0):
      if (r==1 \text{ or } r==6):
        psn=1
      else:
        psn=psn+r
    print("Position=",psn)
    if (psn >= 100):
      print("You won")
      return
    play (psn)
14 position=0
print("Position=", position)
16 play (position)
```

```
import random
import random
                                           3 def play(psn):
def play(psn):
                                               r = random.randint(1,6)
                                               print("Dice rolled:",r)
    r = random. randint(1,6)
                                               input()
    print("Dice rolled: ",r)
                                               if (psn == 0):
    if(psn == 0):
                                                  if (r==1 \text{ or } r==6):
      if (r==1 \text{ or } r==6):
                                           0
                                                    psn=1
         psn=1
                                           10
                                               else:
    else:
20
                                                  psn=psn+r
      psn=psn+r
                                               print("Position=",psn)
    print("Position=",psn)
                                               if (psn >= 100):
    if (psn >= 100):
                                                  print("You won")
      print("You won")
                                           15
54
      return
                                           16
                                               play (psn)
    play (psn)
16.
                                           18
                                           19
18
                                           20 position=0
position=0
                                           21 print ("Position=", position)
print ("Position=", position)
                                           22 play (position)
m play (position)
```

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```
import random
def play(psn):
```

in/noc20_cs35/unit?unit=121&assessment=277

The Joy of Computing using Python - - Unit 9 - Week 7

```
print ("Dice rolled: ",2)
      if (psn == 0):
          psn=1
     else:
        psn=psn+2
      print ("Position=",psn)
     if (psn >= 100):
        print ("You won")
      play (psn)
 14
 s position=0
 m print ("Position=", position)
 play (position)
No, the answer is incorrect.
Score: 0
Accepted Answers:
No, the answer is incorrect.
Score: 0
Accepted Answers:
 import random
 def play(psn):
      r = random. randint(1,6)
      print("Dice rolled:",r)
      if (psn == 0):
        if (r==1 \text{ or } r==6):
           psn=1
      else:
 10
        psn=psn+r
      print ("Position=", psn)
      if (psn >= 100):
 13
        print("You won")
        return
      play (psn)
 16
 111
 position=0
 morphism print ("Position =", position)
 play(position)
```

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Question 10

- 1) Which of the following options correctly represent the full form of acronyms NLTK and VADER 1 point
 - NLTK: Normal Language Toolkit, VADER: Valence Aware Dictionary and Emotional Reasoner
 - NLTK: Natural Language Toolkit, VADER: Valence Aware Dictionary and Sentiment Reasoner
 - NLTK: Normal Language Toolkit, VADER: Valence Aware Dictionary and Sentiment Reasoner
 - Natural Language Toolkit, VADER: Valence Aware Dictionary and Emotional Reasoner

No, the answer is incorrect.

Score: 0

Accepted Answers:

NLTK: Natural Language Toolkit, VADER: Valence Aware Dictionary and Sentiment Reasoner

Question 11

Which of the scenarios in the options does the following code represent?

```
import random
dict_age = {}
dict_age["Arun"]=20
4 dict_age ["Bhima"]=10
dict_age ["Chirag"]=40
dict_age ["Deepak"]=30
| l = list (dict_age.values())
10 dict1={}
1_name=dict_age.keys()
12 i=0
prev=0
for each in dict_age:
    dict1[each]=prev+l[i]
    prev=dict1[each]
    i = i + 1
m print(dict1)
r=random.randint(0,sum(dict_age.values()))
m print(r)
m for each in dict1:
    if (r < dict1 [each]):
      print("Give all money to", each)
      break
```

- All money is given to the oldest person
- All money is given to the youngest person
- Money is given to a person with a probability proportional to his/her age
- Money is given to a person with a probability inversely proportional to his/er age

No, the answer is incorrect.

No, the answer is incorrect.

Score: 0

Accepted Answers:

Money is given to a person with a probability proportional to his/her age

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Question 12

```
4) Predict the output
       import networkx as nx
       2 G=nx . gnp_random_graph(100,1)
       print(nx.is_connected(G))
  True
  False
  "connected"
  can not say
No, the answer is incorrect.
Score: 0
Accepted Answers:
True
```

Question 13

```
ne)tPredict the output
        import numpy as np
        2 a=np. array([1,2,3])
        b=np.array([[1],[2],[3]])
ment?
        4 print(a*b)
   [1,4,9]
   [2,4,6]
ment?
   [[123]
```

.in/noc20_cs35/unit?unit=189&assessment=286

The Joy of Computing using Python - - Unit

```
[246]
 [369]]
 error
No, the answer is incorrect.
Score: 0
Accepted Answers:
[[123]
[246]
[369]]
```

Question 14

9) What is the output of the following code?
print('ab'.isalpha())
True False None Error
:.in/noc20_cs35/unit?unit=189&assessment=286
The Joy of Computing using Python -
No, the answer is incorrect. Score: 0 Accepted Answers: True
Question 15
1) Which Python library is used for browser automation?
networkx
numpy
nltk
selenium
No, the answer is incorrect. Score: 0
Accepted Answers: selenium
Question 16

The numbers of edges of complete graph having nodes as 1,2,3,4,5,6,7,8,9,10 is

Option A- 45 Option B- 90 Option C- 30 Option D- 60

According to me answer is 45 .reson is given below:

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The total number of possible edges in a complete graph of N vertices can be given as,

```
Total number of edges in a complete graph of N vertices = (n * (n-1))/2
```

So, for 10 vertices we have (10*9)/2=45

Question 17

A code was given and the aim of the code was to check wheather we can use touple as key of dictionary

```
Ans
      Yes
Python 3.8.4 Shell
File Edit Shell Debug Options Window Help
Python 3.8.4 (tags/v3.8.4:dfa645a, 3
tel)] on win32
Type "help", "copyright", "credits"
>>> dictionary=dict()
>>> dictionary[(1,2,3)]="apple"
>>> print(dictionary)
{(1, 2, 3): 'apple'}
                                      Question 18
What is the output of the following code:
 for i in range(5, -1, -1):
    print(i)
    option 1-
   5
   4
   3
   2
   1
   0
  Option 2
 5 4
        3 2
                1
Option 3
 Error
```

Option 4

None of these

Question 19

```
Which numbers from 1 to 100 does the following code print?
```

```
while(i<=50):
    f=0
    for j in range(2,i):
        if(i%j==0):
        f=1
        break
    if(f==1):
        print(i)
    i=i+1</pre>
```

i=0

option 1-prime numbers

option 2- composite number

option 2-perfect nmber

option 3- none of these

Answer is composite numbers

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```
훩 joc.py - C:/Users/abhis/Desktop/joc.py (3.8.4)
File Edit Format Run Options Window Help
i=0
while (i <= 50):
     f=0
     for j in range(2,i):
           if(i%j==0):
                f=1
                break
     if (f==1):
          print(i)
     i=i+1
Python 3.8.4 Shell
File Edit Shell Debug Options Window Help
50
>>>
6
10
12
14
```

Question 20

If 570 candidates vote for 1000 then how much vote for 20,000?

```
Option 1- 11400
```

Option 2- 1140

Option 3- 2000

Option 4- 1000

Answer is 11400

Because (570/1000)x20000=11400

Question 21

If COMPUTER is PLAMETUSOV and SCIENCE is WMAOLEPTY, then what PYTHON is?

I CAN NOT REMEMBER THESE UNDERLINED WORDS AND OPTIONS GIVEN FOR THIS QUESTION

QUESTION 22

What does the following code do?

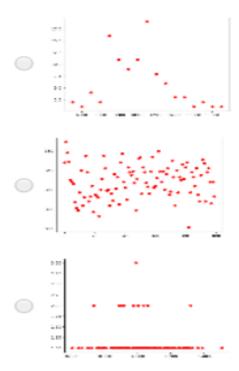
Numpy.array([1,2,3,4])

Option 1- creates an array

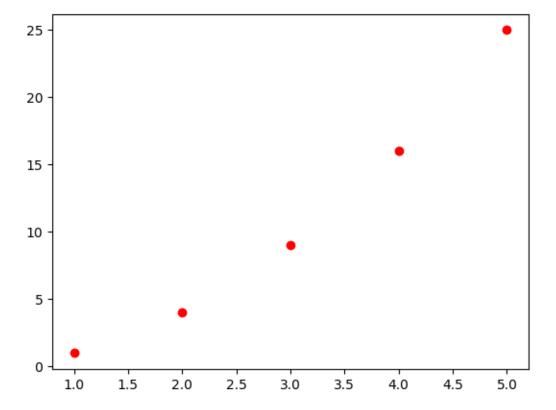
Option 2- shows syntax error

```
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Option 3- none of these
Option 4- creates a touple
ANSWER IS shows syntax error
                  >>> import numpy
                  >>> print(Numpy.array([1,2,3,4]))
                  Traceback (most recent call last):
                     File "<pyshell#3>", line 1, in <module>
                       print(Numpy.array([1,2,3,4]))
                  NameError: name 'Numpy' is not defined
                  >>>
                                    Question 23
 There was a question like:
A function of barbelgraph was given and was asked how many nodes it will
produce?
I can't remember that question code and options given for it
                                    Question 24
The following pattern was given and was asked:
Choose the code required to produce this pattern
     *
      * * * *
I can't remember the options
                                    Question 25
What is the output of the following code?
     import matplotlib.pyplot as plt
    x=[1,2,3,4,5]
    y=[1,4,9,16,25]
    plt.plot(x,y,'ro')
    plt.show()
```

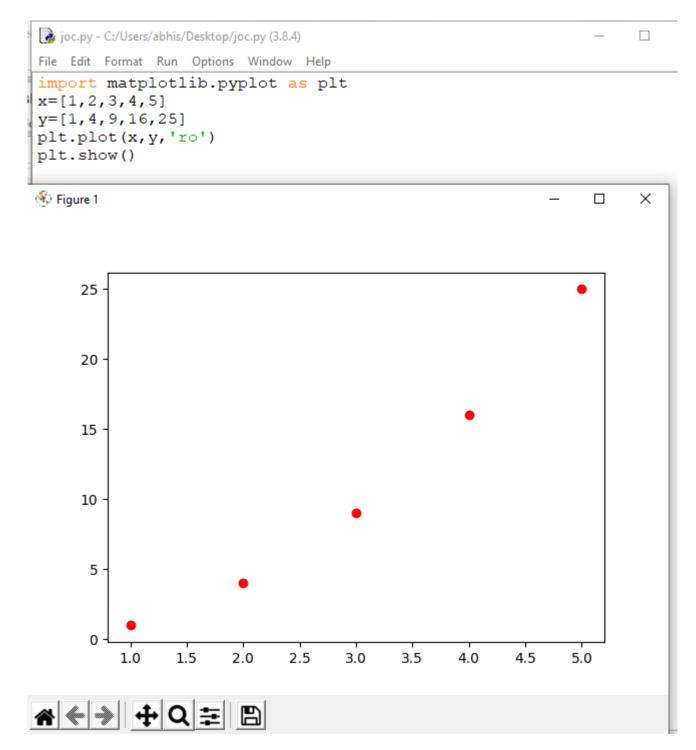
options 1 ,2 and 3 are given below in 1 figure



option 4



Answer is option 4 (see the below images for proof)



Question 26(Scratch question)

Choose the scratch code for gling a ball:

I can't remember the options.

Question 27(Scratch question)

REPEAT N

ROTATE 18 DEGREE

Above red lines was written in scratch format

Question : For what value of n in the following code ,the spirit will do a complete rotation?

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Option 1-30

Option 2-20

Option 3-10

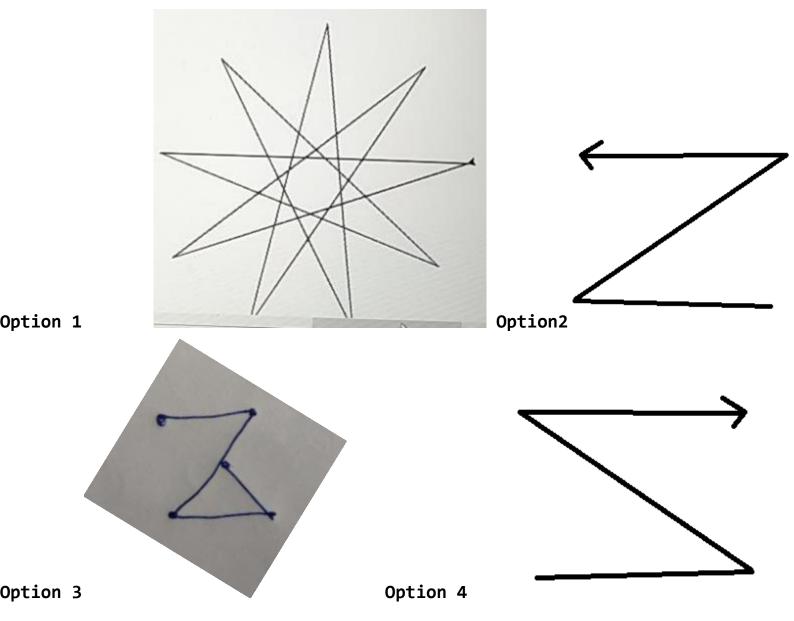
Option 4-15

ACCORDING TO ME ANSWER IS 20 (BECAUSE 360/18=20)

Question 28(Turtle question)

A turtle code was given .

Question :what is the output of the following code?



 1^{st} thing ,I can not remember the turtle code given for it and I have doubt in option number 4

Question 29

```
A graph for a lottery was shown in which:
Y axis was Account money
X axis was Number of turns
Question : Will you gamble?
 Option 1- Yes
 Option 2- No
 Option 3- can't tell
 Option 4- None of these
Answer According to me ,the answer is No because data is insufficient
                                 Question 30
What does the following code returns for positive and as well negavtive
values of n?
 def num(n):
   if n>0:
       return(-n)
   else:
       return(-n*-1)
 Option 1- Absolute value of n
 Option 2- Negative vale of n
 Option 3- Absolute negative vale of n
 Option 4- Same number
Answer Absolute negative value of n
Reason Let us consider two numbers one positive and the other negative that
is 8 and -8.So for 8 n=-|8|=-8 and for -8 n=-|-8|=-8
                                 Question 31
What does the following code do?
j="".join(random.sample(word,random.randint(0,len(word))))
 Option 1- produces runtime error
 Option 2- gives correct output for any length of the word
 Option 3- may or may not gives output for any length of word
```

Option 4- prints nothing

Answer may or may not gives output for any length of word

```
joc.py - C:\Users\abhis\Desktop\joc.py (3.8.4)
          File Edit Format Run Options Window Help
          import random
          word="apple"
          j="".join(random.sample(word,random.randint(0,len(word))))
          print(j)
          Python 3.8.4 Shell
          File Edit Shell Debug Options Window Help
          Python 3.8.4 (tags/v3.8.4:dfa645a, Jul 13 2020, 16:30:28) [N
          tel)] on win32
          Type "help", "copyright", "credits" or "license()" for more
                             ==== RESTART: C:\Users\abhis\Desktop\joc.py
          >>>
         joc.py - C:\Users\abhis\Desktop\joc.py (3.8.4)
         File Edit Format Run Options Window Help
         import random
         word="apple"
         j="".join(random.sample(word,random.randint(0,len(word))))
         print(j)
          Python 3.8.4 Shell
          File Edit Shell Debug Options Window Help
          Python 3.8.4 (tags/v3.8.4:dfa645a, Jul 13 2020, 16:30:28) [M
          tel)] on win32
          Type "help", "copyright", "credits" or "license()" for more
          >>>
                          ===== RESTART: C:\Users\abhis\Desktop\joc.py
          рa
          >>>
                                    Question 32
What is the output of the following code?
List=["hi", "we", "are", "the", "elements", "in", "the", "list"]
print(List[-5:-1])
Option 1- ['the', 'elements', 'in', 'the']
Option 2- ['the', 'elements', 'in']
Option 3-[]
Option 4- ['elements', 'in', 'the']
Answer ['the', 'elements', 'in', 'the']
```

What is the output of the following code?

```
s="hello"
print(s.index('ells'))
Option 1- 0
Option 2- 1
Option 3- error
Option 4- 2
Answer error
```

```
joc.py - C:\Users\abhis\Desktop\joc.py (3.8.4)
File Edit Format Run Options Window Help
s="hello"
print(s.index('ells'))
Python 3.8.4 Shell
File Edit Shell Debug Options Window Help
Python 3.8.4 (tags/v3.8.4:dfa645a, Jul 13 2020, 16:30:28) [March 1997]
tel)] on win32
Type "help", "copyright", "credits" or "license()" for more
>>>
               ====== RESTART: C:\Users\abhis\Desktop\joc.py
Traceback (most recent call last):
  File "C:\Users\abhis\Desktop\joc.py", line 2, in <module>
    print(s.index('ells'))
ValueError: substring not found
>>>
```

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Question 34

Everthing was same like below question just the string was changed

If GOLD is encoded as FNKC, then how is PLATINUM encoded?

NKYRGLSK

OKZSHMUL

NJYRGLSK

OKZSHMTL

Yes, the answer is correct.

Score: 1

Accepted Answers:

OKZSHMTL

THESE WERE THE QUESTIONS DURING FINAL CENTER EXAM OF JOY OF COMPUTING USING PYTHON ON 13TH DECEMBER FROM 9 AM TO 12PM(MORNING SESSION)

Credits goes to my subscribers who discussed these questions and

my memory of this exam

