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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » The Joy of Computing using Python (course)



Course outline How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

week 4

Week 5

Week 6

- Substitution
 Cipher -The
 science of
 secrecy (unit?
 unit=124&lesson=125)
- Substitution
 Cipher -The
 science of
 secrecy 01

Week 6: Assignment 6

The due date for submitting this assignment has passed.

Due on 2021-09-08, 23:59 IST.

Assignment submitted on 2021-09-07, 00:38 IST

1) If PYTHON is SVWERK, what is COMPUTING?

1 point

- FLPMXQLKJ
- FRPSXWLQJ
- Insufficient data
- ZLJMSQFKD

Yes, the answer is correct.

Score: 1

Accepted Answers:

FLPMXQLKJ

2) What operation will the following program do?

1 point

```
(unit?
                            import string
  unit=124&lesson=126)
                            s="hello"

    Substitution

  Cipher -The
  science of
                            for i in range(len(s)):
  secrecy 02
                                 c=int(ord(s[i])-26)
  (unit?
  unit=124&lesson=127)
                                 n=n+chr(c)
                           print(n)

    Substitution

  Cipher -The
  science of
  secrecy 03
                              Shift the letter by 6 to the right and then print the capital of that letter.
  (unit?
  unit=124&lesson=128)
                              Shift the letter by 6 to the left and then print the capital of that letter.
                              Shift the letter by 6 to the right and then print the small letter.
Tic Tac Toe -
  Down the
                              Shift the letter by 6 to the left and then print the small letter.
  memory Lane
                            Yes, the answer is correct.
  (unit?
                            Score: 1
  unit=124&lesson=129)
                            Accepted Answers:
Tic Tac Toe -
                            Shift the letter by 6 to the right and then print the capital of that letter.
  Down the
                           3) What is the output of the following program?
  memory Lane
  01 (unit?
  unit=124&lesson=130)
                          import string
                          s="hello, and welcome to joy of computing course"
Tic Tac Toe -
  Down the
                          if(s.capitalize()==s[0:1].upper()+s[1:len(s)]):
  memory Lane
                               print("True")
  02 (unit?
                          else:
  unit=124&lesson=131)
                               print("False")
Tic Tac Toe -
  Down the
                              False
  memory Lane
                              True
  03 (unit?
  unit=124&lesson=132)
                            Yes, the answer is correct.
                            Score: 1
☐ Tic Tac Toe -
                            Accepted Answers:
  Down the
                            True
  memory Lane
  04 (unit?
                           4) What will be the output of the following program?
  unit=124&lesson=133)
Tic Tac Toe -
                          import string
  Down the
                          s="hello, and welcome to joy of computing course"
  memory Lane
  05 (unit?
                          print(s[::2].replace("e","l"))
  unit=124&lesson=134)

    Recursion

                              II,adwlolt o fcmuigcus
  (unit?
                              hlo n lcm ojyo optn orl
  unit=124&lesson=135)
                              hello, and welcome to jy of computing course
Recursion 01
                              It will show an error
  (unit?
```

1 point

1 point

```
Yes, the answer is correct.
   unit=124&lesson=136)
                             Score: 1
Recursion 02
                             Accepted Answers:
   (unit?
                             hlo n lcm ojyo optn orl
   unit=124&lesson=137)
                             5) The array object in NumPy is called ndarray and NumPy is faster than Lists. State
                                                                                                                    1 point
Recursion 03
                           whether the above statement is true or false.
   (unit?
  unit=124&lesson=138)
                               True
                               False
 Recursion 04
   (unit?
                             Yes, the answer is correct.
  unit=124&lesson=139)
                             Score: 1
                             Accepted Answers:
 Recursion 05
                             True
   (unit?
  unit=124&lesson=140)
                            6) What is the output of the following program? (Assuming that k and n are any 2 positive 1 point
Recursion 06
                           numbers)
   (unit?
  unit=124&lesson=141)
                             def fun(k,n):
Week 6
                                  if(n==0):
  Feedback
  Form: The Joy
                                       return 1
  of Computing
                                  else:
  using Python
                                       return(k*fun(k,n-1))
  (unit?
  unit=124&lesson=142)
                             print(fun(k,n))
 Quiz: Week 6:
   Assignment 6
  (assessment?
                               It will find the value of k raised to the power of k
  name=307)
                               It will find the value of n raised to the power of k
 Week 6:
                               It will find the value of k raised to the power of n
   Programming
                               It will find the value of n raised to the power of n
  Assignment 1 -
  Matrix
  // Yes, the answer is correct. (/noc21_cs75/progassignmen Score: 1
  name=309)
                             Accepted Answers:
                             It will find the value of k raised to the power of n
 Week 6:
   Programming
                            7) The output of the following program is as follows
                                                                                                                    1 point
  Assignment 2 -
                           [[ 1 4 13]
  Number
                           [229]
  Triangle I
   (/noc21_cs75/progassignments 6]]
                           What should be written in the empty blank in the following program to get the
   name=310)
                           above desired output?
 Week 6:
   Programming
   Assignment 3 -
                            import numpy
   Symmetric
                            arr=numpy.array([[1,2,3],[4,2,3,],[13,9,6]])
  Matrix
                           print(
  (/noc21 cs75/progassigrim
   name=311)
                               numpy.transpose(arr)
Week 7
```

Week 8

Week 9

Week 10

Week 11

Week 12

Text Transcripts

Download Videos

Live Session

October 10 Programming test - Session 1 (10AM to 11AM)

October 10 Programming test - Session 2 (8PM to 9PM)

- arr.transpose()
- Either a or b options can be used
- arr.reverse()

Yes, the answer is correct.

Score: 1

Accepted Answers:

Either a or b options can be used

8) Which of the following programs will calculate the factorial of a given number?

```
1 point
```

```
def fact(n):
    if(n==0):
        return 1
    else:
        return(n*fact(n+1))

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n))</pre>
```

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,0))</pre>
```

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,1))</pre>
```

None of the following

Yes, the answer is correct.

Score: 1

Accepted Answers:

```
def fact(n,t):
    if(t==n):
        return n
    else:
        return t*fact(n,t+1)

n=int(input("Enter the number whose factorial has to be calculated\n"))
if(n<0):
    print("Enter a valid number")
print("The factorial of",n,"is",fact(n,1))</pre>
```

OR

None of the following

- 9) In tic tac toe game, if player 1 starts the game by marking 'X' in the center of the matrix, **1** point then he has more chances of winning. State whether the above given statement is true or false.
 - True

False

Yes, the answer is correct.

Score: 1

Accepted Answers:

True

- 10) Recursive programs are faster than the iterative programs. State whether the following *1 point* statement is true or false.
 - True
 - False

Yes, the answer is correct.

Score: 1

Accepted Answers:

False