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NPTEL

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Courses » Joy of computing using Python

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Unit 8 - Week 6: Cool Ideas (Part 4)

Register for Certification exam

Course outline

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Week 2: Introduction to Python

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Week 4: Cool Ideas (Part 2)

Week 5: Cool Ideas (Part 3)

Week 6: Cool Ideas (Part 4)

🔵 Substitution Cipher -The science of secrecy

⚪ Substitution Cipher -The science of secrecy 01

⚪ Substitution Cipher -The science of secrecy 02

⚪ Substitution Cipher -The science of secrecy 03

⚪ Tic Tac Toe - Down the memory Lane

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Assignment 6

**The due date for submitting this assignment has passed. Due on 2019-03-13, 23:59 IST.
As per our records you have not submitted this assignment.**

1) Complete the following recursive function for calculating the factorial of a number.   *1 point*

```
def fact(num):
    if(num==0):
        return 1
    else:
        return _____
```

⚪ fact(num-1)
⚪ num*fact(num)
⚪ num*fact(num-1)
⚪ (num-1)*fact(num)

No, the answer is incorrect.
Score: 0

Accepted Answers:
*num*fact(num-1)*

2) What is the output of the following recursive function?   *1 point*

```
def test(i,j):
    if(i==0):
        return j
    else:
        return test(i-1,i+j)
print(test(4,7))
```

⚪ 13
⚪ 7
⚪ 17
⚪ 10

No, the answer is incorrect.
Score: 0

Accepted Answers:
17

3) State True or False.   *1 point*
Recursion and iteration are similar programming techniques.

⚪ True
⚪ False

No, the answer is incorrect.
Score: 0

Accepted Answers:
False

4) Which of the following statements is true?   *1 point*

○ Both Caesar cipher and Substitution cipher are the same

○ Caesar and Substitution cipher are totally unrelated

○ Caesar cipher is a special case of Substitution cipher

○ Substitution cipher is a special case of Caesar cipher

No, the answer is incorrect.
Score: 0

Accepted Answers:
Caesar cipher is a special case of Substitution cipher

5) If AMIT is encoded as ZLHS and SIMRAN is encoded as RHLQZM, then how would   *1 point*
SOUJANYA be encoded as?

○ RNTIZGFD

○ RTNIZMXZ

○ RTNIZMZX

○ RNTIZMXZ

No, the answer is incorrect.
Score: 0

Accepted Answers:
RNTIZMXZ

6) What is a Cipher?   *1 point*

○ An algorithm for performing encryption and decryption.

○ An encrypted message

○ Both A and B

○ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
An algorithm for performing encryption and decryption.

7) How many winning configurations are possible for a player in the Tic Tac Toe game?   *1 point*

○ 2

○ 4

○ 6

○ 8

No, the answer is incorrect.
Score: 0

Accepted Answers:
8

8) What is the game strategy used in the Tic Tac Toe game?   *1 point*

○ Divide and Conquer

○ Min-Max Strategy

○ Greedy Strategy

○ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Min-Max Strategy

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9) Which of these statements is true?   *1 point*

○ Recursion can solve a few problems which Iteration cannot.

○ Iteration can solve a few problems which Recursion cannot.

○ Anything that Recursion can solve can be solved by Iteration.

○ Recursion and Iteration are totally unrelated.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Anything that Recursion can solve can be solved by Iteration.

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