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

Course outline

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Assignment 6

The due date for submitting this assignment has passed. **Due on 2018-09-12, 23:59 IST.**

Assignment submitted on 2018-09-12, 23:18 IST

1) If AMIT is encoded as ZLHS and SIMRAN is encoded as RHLQZM, then how would VIDHYA be encoded as?

1 point

- ☐ WJEIZB
- ☒ UHCGXZ
- ☐ XKFJAC
- ☐ TGBFWY

Yes, the answer is correct.

Score: 1

Accepted Answers:

UHCGXZ

2) If SUDARSHAN is encoded as YLSEFYWEG and BHAWANA is encoded as TWEUEGE, how would SHUBH be encoded as?

1 point

- ☐ TIVCI
- ☐ RGTAG
- ☒ YWLTW
- ☐ WUTEG

Yes, the answer is correct.

Score: 1

Accepted Answers:

YWLTW

3) 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

Yes, the answer is correct.

Score: 1

Accepted Answers:

Caesar cipher is a special case of Substitution cipher

4) How many winning configurations are possible for a player in the Tic Tac Toe game?

1 point

☒ Tic Tac Toe -
Down the
memory Lane
01

☒ Tic Tac Toe -
Down the
memory Lane
02

☒ Tic Tac Toe -
Down the
memory Lane
03

☒ Tic Tac Toe -
Down the
memory Lane
04

☒ Tic Tac Toe -
Down the
memory Lane
05

☒ Recursion

☒ Recursion 01

☒ Recursion 02

☒ Recursion 03

☒ Recursion 04

☒ Recursion 05

☐ Recursion 06

☒ Quiz :
Assignment 6

☒ Programming
Assignment - 1:
Duplicate

☒ Programming
Assignment - 2:
The power of 2

☒ Programming
Assignment 3:
Lower
Triangular
Matrix

☐ Week 6
Feedback

**Week 7: Cool
Ideas(Part 5)**

**Week 8: Cool
Ideas(Part 6)**

**Week 9: Cool
Ideas(Part 7)**

**Week 10: Cool
Ideas(Part 8)**

Week 11

Week 12

- ☐ 2
☐ 4
☐ 6
☒ 8

Yes, the answer is correct.

Score: 1

Accepted Answers:

8

5) What is the game strategy used in the Tic Tac Toe game?

- ☐ Divide and Conquer
☐ Greedy Strategy
☐ Iterative Search
☒ Min-Max Strategy

Yes, the answer is correct.

Score: 1

Accepted Answers:

Min-Max Strategy

6)

Identify the winner of this game.

- ☐ X
☐ O
☒ Draw

Yes, the answer is correct.

Score: 1

Accepted Answers:

Draw

7) Which of these statements is true?

- ☐ 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.

Yes, the answer is correct.

Score: 1

Accepted Answers:

Anything that Recursion can solve can be solved by Iteration.

8) Consider the following recursive function

```
def f(n):
    if n<0:
        return -1 * f ( -1 * n)
    elif n==0:
        return 0
    else:
        return 4 + f (n-1)
```

What would be the output of f(8)?

- ☐ 12
☐ 4
☒ 32



1 point

1 point

1 point

1 point

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VIDEOS](#)☐ 2**Yes, the answer is correct.****Score: 1****Accepted Answers:**

32

9) What does the following function do?

1 point

def f(n):

if n<0:

return -1 * f (-1 * n)

elif n==0:

return 0

else:

return f(n-1)+2

☐ Adds 2 to n (i.e calculates n+ 2)☐ Subtract 2 from n (i.e. calculates n - 2)☒ doubles the value of n (i.e. calculates n * 2)☐ halves the value of n (i.e. calculates the value of n / 2)**Yes, the answer is correct.****Score: 1****Accepted Answers:***doubles the value of n (i.e. calculates n * 2)*

10) A ____ matrix is required to implement tic tac toe.

1 point

☐ 4*4☐ 5*5☐ 2*2☒ 3*3**Yes, the answer is correct.****Score: 1****Accepted Answers:**

3*3

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