Assignment 5

The due date for submitting this assignment has passed.   **Due on 2019-09-04, 23:59 IST.**

Assignment submitted on 2019-09-04, 22:56 IST

1) Binary search algorithm uses   *1 point*

   ○ Linear way to search values
   ● Divide and conquer method
   ○ Bubble sorting technique
   ○ None of them

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   Divide and conquer method

2) The number of swaps needed to sort the numbers [8, 22, 7, 9, 31, 5, 13] in ascending order, using bubble sort is   *1 point*

   ● 10
   ○ 11
   ○ 12
   ○ 13

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   10

3) Suppose a list is [2, 9, 5, 4, 8, 1]. After the first pass of bubble sort (while sorting in ascending order), the list becomes   *1 point*

   ○ 2,9,5,4,1,8
   ○ 2,5,9,4,8,1
   ● 2,5,4,8,1,9
   ○ 2,1,5,4,8,9

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   2,5,4,8,1,9

4) Which of the following is TRUE in the Monty Hall game with 3 doors?   *1 point*

   ○ Number of doors containing the bumper prize is greater than number of doors containing the goat
   ● Number of doors containing the goat is greater than number of doors containing the bumper prize
   ○ Number of doors containing the goat is equal to the number of doors containing the bumper prize
   ○ The player just gets one chance to choose his door

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   Number of doors containing the goat is greater than number of doors containing the bumper prize

5) Which file format is supported by Python Speech Recognition library?   *1 point*

   ○ mp3
   ● wav
   ○ Both A and B
   ○ None of the above

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   wav

6) Consider the secure Rock Paper Scissors game   *1 point*
0->Rock
1->Paper
2 ->Scissors
Player 1's input : 1000010210
Player 2's input : 1012010211
Who won?

   ● Player 1
   ○ Player 2
   ○ Draw
   ○ Data Insufficient

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   Data Insufficient

7) In the simple Monte Hall game, we had 3 doors and 1 door contained a prize. The player has to guess   *1 point*
which door could possibly contain the prize. That door would be opened and if it contains the prize he
wins it. If more doors are added, the player has more choices to guess. What do you think will happen
to the probability (i.e. chance) of winning if more doors are added?

   ○ Increases
   ● Decreases
   ○ None of the above

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   Decreases

8) In rock, paper, scissors game, how many combinations of choices made by the players are possible?((Rock, Paper) and (Paper, Rock) are considered   *1 point*
different combinations.)

   ● 9
   ○ 27
   ○ 18
   ○ 6

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   9

9) In Rock, Paper and Scissors game, if one of the players shows Scissors then which of the following is/are TRUE?   *1 point*
1. He is guaranteed to win the game if the other player shows Rock.
2. He is guaranteed to win the game if the other player does not show Rock.
3. He is guaranteed to win the game if the other player shows Paper.
4. He is guaranteed to lose the game if the other player shows Paper.

   ○ 1 and 4
   ○ 2,3 and 4
   ○ 2 and 3
   ● Only 3

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   Only 3

10) The average number of key comparisons done in a successful sequential search in a list of length 9 is   *1 point*

   ● 5
   ○ 6
   ○ 10
   ○ 45

   Yes, the answer is correct.
   Score: 1
   Accepted Answers:
   5