Coding Test

<u>Duration: 40 minutes</u>

<u>Instructions:</u>

- Use of the Internet is not allowed.
- If caught copying, you'll be disqualified from the test.
- Copy your final code of all the questions and paste it onto <Your_MIS>.txt and mail it to shyamva20.comp@coep.ac.in
- You can use any programming language of your preference.
- Please fill out the after-test questionnaire provided.

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1. Write a function that checks whether a given string is a palindrome. A palindrome is a word, phrase, number, or other sequences of characters that reads the same forward and backward. For example, "racecar" is a palindrome.

2. Given a list of integers, write a function to find the second largest in the list. For example, if the input is [3, 7, 2, 8, 4], the output should be 7.

3. What is the output of the following code snippet?
   ```
   lst = [1, 2, 3, 4, 5]
   for i in lst:
       if i % 2 == 0:
           lst.remove(i)
   print(lst)
   ```
   A) [1, 3, 5]
   B) [2, 4]
   C) [1, 2, 3, 4, 5]
   D) [1, 4, 5]

4. What is the output of the following code snippet?
   ```
   for i in range(1, 6):
       for j in range(i):
           print(i, end='')
       print()
   ```

   A)
   1
   22
   333
   4444
   55555

   B)
   1
   12
   123
   1234
   12345

   C)
   11111
   2222
   333
   44
   5

   D) None of the above

   ************Thank You*************