

Intro to Software Systems (Summer 2021) - Final Exam - Part A

WELCOME TO PART A of FINAL EXAM of Intro to Software Systems

Start Time: 12.00 Noon

End Time: 12.25 PM

Duration: 25 Minutes

INSTRUCTIONS:

- 12 Questions, 25 Minutes, 20 Marks
- Outputs of the below HTML/CSS/JavaScript/Python scripts are expected to be displayed on Browser UI or Console terminal of respective language
- If you find any Spaces, semicolons etc. as abnormal - consider them as intentional
- Grading is binary, if you provide an correct answer - you will be graded. For an incorrect or a blank answer - you will be graded zero
- For Script questions, please fill the long answer section with your submission python script. The Long answer text box is sufficient enough to submit respective response.

Points: **5/20**

1. Your Roll Number *

2020101093

2. Consider the following statements in context to Python. Choose the right answer from the following options about the statements.

A. Values inside a dictionary are accessed using square brackets just as list

B.

Dictionaries can have keys of a variety of data types: integers, floats, strings, or tuples

C. List and dictionaries can contain multiple values and not other dictionaries.

(1 Point)

- ☐ A, B, C are correct
- ☐ B & C only are correct
- ☐ A & B only are correct
- ☒ None of the above

3. Given two list A & B of integer numbers, write a python script to merge it into sorted list of unique integers

A = [10,80,2,3,5]

B = [90,12,4,5,2,3]

Expected Output: [2, 3, 4, 5, 10, 12, 80, 90]

(5 Points)

```
A.extend(B)
S=set(A)
L=list(S)
L.sort()
print(L)
```

4. Given a statement as below, write a python script to convert lower case into upper case and vice versa, without using any in-build functions.

Input: "Sun sETs in the WeSt"

Expected Output: "sUN SetS IN THE wEst"

(4 Points)

Enter your answer

5. Choose the right option for the result value from the below JavaScript Code snippet

```
let result = 5 > 4;  
alert( result );
```

(1 Point)

- ☐ False
- ☒ True
- ☐ Incorrect assignment
- ☐ Exception Not found

6. In context of python, choose the right option that you will use to read the entire remaining contents of the file as a string from a file object called 'test_file'

(1 Point)

- ☐ test_file.read(2)
- ☒ test_file.read()
- ☐ test_file.readline()

☐ test_file.readlines()

7. Considering the following python script and explain what is the output of Line 4 and Line 5 and why ?

Explain the reason clearly. Answer in a single sentence should be fine. Please do not write paragraphs!

```
1. first = [1,2,3,4,5]
2. second = first
3. second.append(6)
4. print(first)
5. print(second)
```

(2 Points)

line4 output: [1,2,3,4,5]
line5 output: [1,2,3,4,5,6]

8. What is the output of following JavaScript code snippet?

```
for (let i = 1; i < 4; i++)
{
  if (i !== 3) continue;
  console.log(i);
}
```

(1 Point)

- ☐ NaN
- ☐ 2
- ☒ 3
- ☐ 0

9. In context of python, Which of the following statements are true?

(1 Point)

- ☒ When you open a file for reading, if the file does not exist, an error occurs
- ☐ When you open a file for writing, if the file does not exist, an error occurs
- ☐ When you open a file for reading, if the file does not exist, the program will open an empty file
- ☐ None of the Above

10. What is the output of following JavaScript code snippet?

```
function divide(a, b)
{
  alert( a / b );
}
divide(3, '3')
```

(1 Point)

- ☐ NaN
- ☐ TypeError
- ☐ Syntax Error
- ☐ None of the Above

11. Which one of the steps is not a part of requirements engineering?

(1 Point)

- ☐ Elicitation
- ☐ Analysis
- ☒ Design
- ☐ Documentation

12. Consider the following statements in context to lambda functions in Python.
Select the correct answer from the following options.

- A. Lambda functions make it easy to read the code.
- B. They are useful in allowing quick calculations or processing as the input to other functions.
- C. Lambda functions are used for functional programming
- D. They can be useful as quick, throwaway single line functions.

(1 Point)

- ☐ A, B only are correct
- ☐ A, C only are correct
- ☐ B, C, D only are correct
- ☒ A, B, C, D are correct

13. In context of Python, only positive numbers are considered as valid list indices.
Please choose the right option from the following

(1 Point)

- ☐ The statement is Correct
- ☒ The statement is Incorrect
- ☐ The statement is partially correct
- ☐ None of the above

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