Introduction to Computer Science and Programming

::Challenge 2 (15%)

Due: 11:59 PM, Monday, 20 Sep 2021

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By signing below I certify that the attached assignment is my own work. Student ID: Student Name: Signature:

Grade:

No.	Question	Grade
1	Question 1	
2	Question 2	
3	Question 3	
4	Question 4	

5	Question 5	
	Total gold coins	

This problem set will introduce you to using control flow in Python and formulating a computational solution to a problem.

Team

You can work in team of 2 student(s)

Data

ANSWER SHEET

NAME:_____

For each answer, please fill in marks like this: ● not like this: ✗ ⊘ ✓

1	A	B	C	D	E	31	A	B	C	D	E
2	A	B	C	D	E	32	A	B	C	D	E
3	A	B	C	D	E	33	A	B	C	D	E
4	A	B	C	D	E	34	A	B	C	D	E
5	A	B	C	D	E	35	A	B	C	D	E
6	A	B	C	D	E	36	A	B	C	D	E
7	A	B	C	D	E	37	A	B	C	D	E
8	A	B	C	D	E	38	A	B	C	D	E
9	A	B	C	D	E	39	A	B	C	D	E
10	A	B	C	D	E	40	A	B	C	D	E
11	A	B	C	D	E	41	A	B	C	D	E
12	A	B	C	D	E	42	A	B	C	D	E
13	A	B	C	D	E	43	A	B	C	D	E
14	A	B	C	D	E	44	A	B	C	D	E
15	A	B	C	D	E	45	A	B	C	D	E
16	A	B	C	D	E	46	A	B	C	D	E
17	A	B	C	D	E	47	A	B	C	D	E
18	A	B	C	D	E	48	A	B	C	D	E
19	A	B	C	D	E	49	A	B	C	D	E
20	A	B	C	D	E	50	A	B	C	D	E
21	A	B	C	D	E	51	A	B	C	D	E
22	A	B	C	D	E	52	A	B	C	D	E
23	A	B	C	D	E	53	A	B	C	D	E
24	A	B	C	D	E	54	A	B	C	D	E
25	A	B	C	D	E	55	A	B	C	D	E
26	A	B	C	D	E	56	A	B	C	D	E
27	A	B	C	D	E	57	A	B	C	D	E
28	A	B	C	D	E	58	A	B	C	D	E
29	A	B	C	D	E	59	A	B	C	D	E
30	A	B	C	D	E	60	A	B	C	D	E

Questions.

1. **Create a dummy dataset (0.5 pts)**
   - Data folder:
     + 2000102_NguyenVanA_3A.jpg (StudentID_FullName_Code.jpg)
     + 2000103_NguyenVanB_3A.jpg (StudentID_FullName_Code.jpg)
     + 2000104_NguyenVanC_3A.jpg (StudentID_FullName_Code.jpg)
     (At least 10 dummy data)
   - Answer folder:
     + 3A.jpg
2. **From the Data folder, generating student.csv (StudentID, Surname, Firstname, Code) by coding. (1pts)**
3. **Generating the first 5 answers of one student. (1pts)**

4. **Generating all answers of one student. (2pts)**
5. **Generating grading.csv (StudentID, Grading). (1.5pts)**
6. **Summary which 3 questions are the most difficult. (1pts)**
7. **Generating the final result (pass/fail) of the class. (1pts).**
8. **Teamwork on github. (2 pts)**

Reference Source:

https://dontrepeatyourself.org/post/bubble-sheet-multiple-choice-test-opencv-and-python/

Debriefing Report :: Part 1

Part 1. Report on the challenge.

Debriefing Report : Part 2

Part 2. Team Evaluation

For each of your team members (including yourself), summarise and comment on their contribution to the work (consider their attitudes especially willingness to contribute), knowledge, written contribution, attendance at meetings, contribution to the presentation, helping keep the group together and working well, leadership, etc). If your team was given **100 gold coins** to reward it for its work, how many coins would each member get (including yourself)?

Team Member Name	**Contribution: Number of Coins**
1. Nguyen Van A	40%
2.Nguyen Van B	20%
3.Nguyen Van C	20%