Marking Scheme for COMP Prelim Practical Exam P2 2019

Name :	Class:
name.	Class

Task1	Task2	Task3	Task4	Total
(10)	(10)	(10)	(20)	(50)

No	Description		
1.	One mark for working top formula, one mark for rest		
	=VLOOKUP(B7,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B8,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B9,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B10,\$E\$29:\$G\$35,3,TRUÉ)		
	=VLOOKUP(B11,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B12,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B13,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B14,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B15,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B16,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B17,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B18,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B19,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B20,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B21,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B22,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B23,\$E\$29:\$G\$35,3,TRUE)		
	=VLOOKUP(B24,\$E\$29:\$G\$35,3,TRUE)		
2.	One mark for working top formula, one mark for rest		
	-IF/O7- 0 /O7 0)*0 40/ 0)		
	=IF(C7>2,(C7-2)*0.1%,0)		
	=IF(C8>2,(C8-2)*0.1%,0)		
	=IF(C9>2,(C9-2)*0.1%,0)		
	=IF(C10>2,(C10-2)*0.1%,0) =IF(C11>2,(C11-2)*0.1%,0)		
	=IF(C11>2,(C11-2) 0.1%,0) =IF(C12>2,(C12-2)*0.1%,0)		
	=IF(C13>2,(C13-2)*0.1%,0) =IF(C13>2,(C13-2)*0.1%,0)		
	=IF(C13>2,(C13-2) 0.1 %,0) =IF(C14>2,(C14-2)*0.1%,0)		
	=IF(C15>2,(C15-2)*0.1%,0) =IF(C15>2,(C15-2)*0.1%,0)		
	=IF(C16>2,(C16-2)*0.1%,0)		
	=IF(C17>2,(C17-2)*0.1%,0)		
	=IF(C18>2,(C18-2)*0.1%,0)		
	=IF(C19>2,(C19-2)*0.1%,0)		
	=IF(C20>2,(C20-2)*0.1%,0)		
	=IF(C21>2,(C21-2)*0.1%,0)		
	=IF(C22>2,(C22-2)*0.1%,0)		
	=IF(C23>2,(C23-2)*0.1%,0)		
	=IF(C24>2,(C24-2)*0.1%,0)		
3.	One mark for working top formula, one mark for rest		
	=D7+E7		
	=D8+E8		
	=D9+E9		
	=D10+E10		
	=D11+E11		
	=D12+E12		
	=D13+E13		
	=D14+E14		

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=D15+E15
    =D16+E16
    =D17+E17
    =D18+E18
    =D19+E19
    =D20+E20
    =D21+E21
    =D22+E22
    =D23+E23
    =D24+E24
    One mark for working top formula, one mark for rest
4.
    =FV(F7,C7,0,B7)
    =FV(F8,C8,0,B8)
    =FV(F9,C9,0,B9)
    =FV(F10,C10,0,B10)
    =FV(F11,C11,0,B11)
    =FV(F12,C12,0,B12)
    =FV(F13,C13,0,B13)
    =FV(F14,C14,0,B14)
    =FV(F15,C15,0,B15)
    =FV(F16,C16,0,B16)
    =FV(F17,C17,0,B17)
    =FV(F18,C18,0,B18)
    =FV(F19,C19,0,B19)
    =FV(F20,C20,0,B20)
    =FV(F21,C21,0,B21)
    =FV(F22,C22,0,B22)
    =FV(F23,C23,0,B23)
    =FV(F24,C24,0,B24)
5.
    =SUM(B5:B24)
    =COUNTIF(B5:B24,">=100000")
6.
7.
         for count in range (20):
    a)
    b)
         # initialized before for loop
         fastest = 99999
         # within for loop, after timing input is received
             if timing < fastest:</pre>
                  fastest = timing
                  print("This is a new record timing!")
```

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c)  # within for loop, immediately after timing input is received

while timing<0 or timing>30:
    print("Invalid timing entered.")

timing = float(input("Enter shuttle run timing (s) : "))

8.  # initialized before for loop
    n = int(input("Enter number of timings to record: "))

# modify conditions of for loop
for count in range (n):
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9.
    age = 0
    rejected = 100
    Eligible = 0
    age = int(input("Please enter student's age: " )
    result = float(input("Please enter proficiency test score: "))
    while age != 0 or result != 0:
        if age < 16 or age > 18 or result < 60
            if age < 16:
                print("Age must be at least sixteen years.")
            elif age < 18:
                print("Age must not be more than eighteen years.")
            if result < 60:
                print("Proficiency test score must be at least 60.")
            rejected = rejected - 1
            print("Student is NOT eligible for job attachment
    programme.")
    else:
            print("Student is eligible for job attachment programme."
            eligible = eligible + 1
            age = int(input("Please enter student's age: " ))
        result = float(input("Please enter proficiency test score: ")
    print("Number of students eligible: " eligible)
    print("Number of students rejected: ", rejected)
    Corrected lines
    rejected = 0
    eligible = 0
    age = int(input("Please enter student's age: " ))
    while age != 0 and result != 0:
        if age < 16 or age > 18 or result < 60:
           elif age > 18:
            rejected = rejected + 1
        else:
        # increase indentation to 1 tab
        age = int(input("Please enter student's age: " ))
        # reduce indentation to 1 tab
    print("Number of students eligible: ", eligible)
    OR
    print("Number of students eligible: " + str(eligible))
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10.	input locking password and unlocking password
10.	validation of locking password (6 characters long)
	and outputs an error message if invalid and continuously request for another
	locking password
	or a success message if valid
	checks if the locking password matches the unlocking password
	and outputs appropriate message if they match
	if unlocking password does not match locking password:
	appropriate algorithm is used to check if wrong password has been entered, and
	request for an unlocking password again up to 3 times
	outputs the appropriate message if wrong password entered less than 3 times
	outputs the appropriate message if wrong password entered 3 times (or more)
	outputs the appropriate message if correct password entered subsequently
11.	Test 1: output of the following messages in bold are shown:
11.	rest 1. Output of the following messages in bold are shown.
	Enter password to lock: <u>53423</u>
	Invalid password. Enter password to lock:
	Intel publicate to reek.
	Test 2: output of the following messages in bold are shown:
	Enter password to lock: 534237
	Safe is locked. Unlock with the same password.
	Enter password to unlock safe: 534237
	Safe is unlocked.
	Test 3: output of the following messages in bold are shown:
	Enter password to lock: 534237
	Safe is locked. Unlock with the same password.
	Enter password to unlock safe: 732435
	Wrong Password. Enter password to unlock safe: $\underline{534237}$. Safe is unlocked.
	Test 4: output of the following messages in bold are shown:
	Enter password to lock: 534237
	Safe is locked. Unlock with the same password.
	Enter password to unlock safe: 732435
	Wrong Password. Enter password to unlock safe: 732435.
	Wrong Password. Enter password to unlock safe: <u>732435</u> . Exceeded maximum tries. Please contact concierge to
	unlock.
12.	Extend: use of while loop

		input for re-entered password	
		checks if re-entered password matches the password	
		outputs the appropriate message when passwords don't match	
13.	Extend:	use of while loop	
		repeatedly requests for new locking password after safe is unlocked	
		Total	