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Class/ Index Number	Centre Number/ 'O' Level Index Number	Name	
,	1		



新加坡海星中学

MARIS STELLA HIGH SCHOOL PRELIMINARY EXAMINATIONS SECONDARY FOUR

COMPUTING

Paper 2 Practical (Lab-based)

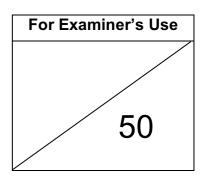
7155/02 28 August 20202 hours 30 mins

Additional Materials:

Electronic version of COMPANY.XLS file Electronic version of DEPOSITS.PY file Electronic version of CASHBACK.PY file Insert Quick Reference for Python

READ THESE INSTRUCTIONS FIRST

SOLUTION



This document consists of 6 printed pages.

Task 1

Question	Answer	Marks
1	=MID(D4;10;2)	2
	=MID(D5;10;2)	
	=MID(D6;10;2)	
	=MID(D7;10;2)	
	=MID(D8;10;2)	
	=MID(D9;10;2)	
	=MID(D10;10;2)	
	=MID(D11;10;2)	
	=MID(D12;10;2)	
	Acceptable: RIGHT(D4;2)	
	This is in the next syllabus but not in current syllabus	

Question	Answer	Marks
2	=VLOOKUP(E4;\$B\$18:\$C\$22; 2)	2
	=VLOOKUP(E5;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E6;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E7;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E8;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E9;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E10;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E11;\$B\$18:\$C\$22; 2)	
	=VLOOKUP(E12;\$B\$18:\$C\$22; 2)	

Question		Answer	Marks
3	=G4*H4		1
	=G5*H5		
	=G6*H6		
	=G7*H7		
	=G8*H8		
	=G9*H9		
	=G10*H10		
	=G11*H11		
	=G12*H12		
		Answer	Marks
	=F4+I4		1
	=F5+I5		
	=F6+I6		
	=F7+I7		
	=F8+I8		
	=F9+I9		
	=F10+I10		
	=F11+I11		
	=F12+I12		

Question		Answer	Marks
4	Total		1
	Cost		
	\$270.00		
	\$510.00		
	\$160.00		
	\$260.00		
	\$327.00		
	\$475.00		
	\$170.00		
	\$235.00		
	\$260.00		

Question	Answer	Marks
5	=SUM(J4:J12)	1

Question	Answer	
6	=LARGE(G4:G12;2)	2

Task 2

Quest ion	Answer	Marks
7	if names[i].startswith('D'):	1
8(a)	print("The total amount of deposits are: ", sum(deposits))	2
8(b)	print("The average amount of deposit is: ", round(sum(deposits)/len(deposits)))	3
8(c)	for i in range(len(names)): if names[i].endswith('n') and len(names[i]) == 4: print("Customer name is {}, Deposit amount is {}".format(names[i], deposits[i]))	4
	MYDEPOSITS.PY	
	names = ['Joy', 'Mary', 'John', 'Dean', 'Siva'] deposits = [540.35, 525.60, 539.50, 500.05, 570.95]	
	<pre>for i in range(len(names)): if names[i].startswith('D'): print("Customer name is {}, Deposit amount is {}".format(names[i], deposits[i]))</pre>	
	<pre>print("The total amount of deposits are: ", sum(deposits)) print("The average amount of deposit is: ", round(sum(deposits)/len(deposits)))</pre>	
	<pre>for i in range(len(names)): if names[i].endswith('n') and len(names[i]) == 4: print("Customer name is {}, Deposit amount is {}".format(names[i], deposits[i]))</pre>	

Task 3

Quest	Answer	Ma
ion 9	Errors are underlined	rks
	<pre>customers = False count = 10</pre>	
	<pre>while customers == True: exp = int(input("Enter expenditure for quarter: ")) rewards = int(input("Enter rewards accumulated: "))</pre>	
	<pre>if exp >= 500 and rewards >= 1000: print("Customer receives 5 percent cashback.") count = count += 1 elif exp > 300 and rewards >= 700: print("Customer receives 3 percent cashback.") elif exp >= 200: print("Customer receives 2 percent cashback.")</pre>	
	<pre>else print("No cashback discount."")</pre>	
	more_cust = <pre>int</pre> (input("Any more customers? Type Y or N: "))	
	<pre>if more_cust == 'Y': customers = False else: customers = False</pre>	
	<pre>print("Total customers who qualify for 5 percent cashback are: " + count)</pre>	
	Corrected Lines	
1	customers = True	1
2	count = 0	1
3	if exp >= 500 or rewards >= 1000:	1
4	count = count + 1	1
5	elif exp \geq 300 and rewards \geq 700:	1
6	else:	1
7	<pre>print("No cashback discount.")</pre>	1
8	<pre>more_cust = input("Any more customers? Type Y or N: "</pre>	1
9	<pre>if more_cust == 'Y':</pre>	1
4.0	customers = True	
10	<pre>print("Total customers who qualify for 5 percent cashback are: " + str(count))</pre>	1
	OR	
	<pre>print("Total customers who qualify for 5 percent cashback are: " count)</pre>	

Task 4

Questi	Answer	Marks
on		
10	Print 6 chances at the start	
	Ask for user input of a word with 6 or fewer letters	
	Validation of word	
	Ask user to re-enter with correct message	
	while len(word) > 6: word = input("Please re-enter a word with maximum of 6 letters: ")	
	Create a new list with length equal to that of the word.	
	Use of a loop with correct terminating condition	
	Ask for input of a letter	
	Checks if letter is found within the word	
	Output "Letter found in word." if letter is found.	
	Output "Letter not found." if letter is not found.	

Questi	Answer	Marks
11	Screenshot of Test 1	
	Screenshot of Test 2	

Questi	Answer	Marks
on		
12	Create a new list to store indexes	
	Check if letter is found in word	
	Stores all index(es) of the word where letter is found	
	Using the indexes, update the list to overwrite character with letter found	
	Output the list to show all found letters	
	Check chances used up	
	Output "Game over. All chances used!"	
	If user guesses all letters correctly before 6 chances are used	
	Output "You win!" and break	

Sample Code:

```
#TASK 4 WORDGUESS2.PY

print("You have 6 chances to guess a word.") #1m

word = input("Enter a word to guess. Must be 6 or fewer letters: ") #1m

while len(word) > 6: #2m for validation of length

word = input("Please re-enter a word with maximum of 6 letters: ")

guess = list('-' * len(word)) #1m

print(guess)
```

```
CHANCES = 6
count = 0
while CHANCES > 0: #2m outer loop for 6 chances
  letter = input("Enter a letter: ") #1m
  if letter in word: #1m
       print("Letter found in word.")
       indexes = [] #1m
       for i in range(len(word)):
            if word[i] == letter: #1m
                 indexes.append(i) #1m
       for index in indexes: #1m
            guess[index] = letter #1m
       print(guess) #1m
       if "-" not in guess: #1m
         print("You win!")
         break
  else:
       print("Letter not found.") #1m
  CHANCES = CHANCES - 1
if CHANCES == 0: #1m
     print("Game over. All chances used!")
```

-End of Paper-