EVOLUTRONIC WEB SERVICES LIMITED

Name: _____

Date: _____

INFORMATION TECHNOLOGY

Other Statements & Flow Charts Quiz

ALGORITHM DESIGN - Questions

1. Write a structured algorithm to read a positive integer, which is stored in N, followed by N numbers. Print the total and the average.

2. Write a structured algorithm that prompts the user to input the number of passengers who travelled for each day in January in a Mini-Van. Each passenger paid a fare of $1.25. Print the daily and monthly revenue with suitable labels.

3. A day could be sunny, rainy or overcast. Write a structured algorithm to read the weather condition for each day in December. Output the number of days for each weather condition.

4. Write a structured algorithm to read the name and population of a number of countries in the Caribbean terminated by 0. Print the name of the country with the highest population.

5. Write a structured algorithm that reads the temperature for each day in a month terminated by 999. Find the average temperature and the lowest temperature and print them with suitable labels.

FLOW CHART - Questions

6. Design a Flow Chart for the following Algorithms:

a.)
```
PROGRAM PassorFail
WRITE "Enter a pass mark and a student's test mark"
READ Pmark, Smark
IF Smark >= Pmark THEN
WRITE "Pass"
ELSE
WRITE "Fail"
ENDIF
END PROGRAM
```

b.)
```
PROGRAM Gooday
WRITE "Enter the name of a student"
READ Name
WHILE Name <> "End" DO
WRITE "Good day!" , Name
READ Name
ENDWHILE
END PROGRAM
```

c.)
```
PROGRAM Hundred
WRITE "Enter a Number"
READ Num
REPEAT
IF Num < 100 THEN
Num = Num + 15
WRITE Num
ENDIF
UNTIL Num >= 100
END PROGRAM
```

d.)
```
PROGRAM TotAvg
Count = 0
Total = 0
WRITE "Enter a positive Integer"
READ R
FOR X = 1 TO R DO
WRITE "Enter a Number"
READ Num
Count = Count + 1
Total = Total + Num
END FOR
Average = Total / Count
WRITE "Total =" , Total
WRITE "Average =" , Average
END PROGRAM
```

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