

Q1:

Q1

START

SET Sum as int

SET Array countries [50]

SET Array cities [50]

SET Array days [200]

SET day count as int

SET country = input "enter country"

While country does not equal "-1"

SET city equal input "enter city"

While city does not equal "-1"

SET day ^{input} "enter Temp"

While day does not equal "-1"

Add day to days Array, inc day count

End while

End while

End while

~~For I equal 200~~

For I = 0 To daycount

Sum = Sum + dayIS

End for

Print "Avg Temp" = $\frac{\text{Sum}}{\text{daycount}}$

"City Count" = INT

"1" While Count > 0

"1" While City > 0

"1" While Temp > 0

"1" While Count > 0

"1" While City > 0

End While

End While

Q2:

المسألة: ط، ب، ج، د

Q2

START

SET Num of males To 4532

SET Num of females To 6240

SET Female Annual To 0,031

SET Male Annual To 0,042

SET Year To 2021

While Num of males Less Than Num of females

SET Num of males To $\text{Num of males} + (\text{Num of males} \times \text{Male Annual})$

SET Num of females To $\text{Num of females} + (\text{Num of females} \times \text{Female Annual})$

increment Year

End While

Print "The year is" + Year

Q3:

Q3

Start

Set NSTU = Input "enter Number of users"

Set Heights To Array [NSTU]

Set Weights To Array [NSTU]

~~Set BMIS To Array~~

For I = 0 To NSTU

Input Enter user #(I + 1) Height

Input Enter user #(I + 1) weight

If $(Weights[I] / (Heights[I] \times 0.01))$

$\times (Heights[I] \times 0.01))$ is Less

or ≥ 18.5 ,

Output "underweight"

End if

as

Else if (weights[i] / (height[i]
~~100~~ * 0.01)) * (height[i] * 0.01))

is greater than or equal to 18,5
and is less than or equal to 24,9

Output "Normal weight"

End else if

Else if (weights[i] / (height[i]
* 0.01)) * (height[i] * 0.01))

is greater than or equal to 25

and is less than or equal to 29,9

Output "overweight"

End else if

Q 3

Else

Output "OBese"

"

End else

End for

End

Q4:

Q4

Start

a) Set Num = Input "Enter a number"
Set Reverse as int
While Number does not equal 0
Set Remainder = Number % 10
Reverse = Reverse * 10 + Remainder
Number = Number / 10
End while
Output "Reverse Number = " + Reverse

b) Set Last dig as int
Set Sum as int
While Number does not equal zero
Last dig = Number mod 10
If Last dig mod 2 = 0
Sum = Sum + Last dig
End if
Number = Number / 10
End while

Output "Sum of even digits" + Sum

~~while Number is greater than 0~~

c) Set remainder as int

Set Largest as int

While Number is ~~greater~~ greater Than 0

Remainder = Number ~~mod~~ [%] 10

if Largest is Less Than Remainder

Largest = remainder

End if

Number = Number / 10

End while

Output "The Largest digit is" + Largest

d) Set remainder as int

Set Smallest as int

Smallest = Number ~~mod~~[%] 10

While Number is greater Than 0

~~remainder = Number mod~~

remainder = Number % 10

If Smallest is Larger Than remainder

Smallest = remainder

End if

Number = Number / 10

End while

OUTPUT "The smallest dig" + Smallest