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100 REM ***** Body Mass Index *****
110 E:
120 PRINT "==BMI calculation =="
130 INPUT "Weight ?",A:Weight
140 PRINT " KG ",Weight
150 INPUT "Height ?",B:Height
160 PRINT " CM ",Height
170 GOSUB Dashes
180 LET Height = Height / 100
190 LET BMI = Weight / (Height ^ 2)
200 LET Ideal1 = 18.6 * (Height ^ 2)
210 LET Ideal2 = 25 * (Height ^ 2)
220 LET Ideal3 = (Ideal1 + Ideal2) / 2
230 SET FIX = 2
240 PRINT "BMI ", BMI
250 IF BMI < 18.6 GOTO Underweight
260 IF BMI < 25.1 GOTO Normal
270 IF BMI < 30.1 GOTO SurWeight
280 IF BMI < 35.1 GOTO Obese
290 IF BMI < 40.1 GOTO Severe
300 PRINT "      Morbid obesity"
310 GOTO EndOfTests
320 Severe:
330 PRINT "      Severe obesity"
340 GOTO EndOfTests
350 Obese:
360 PRINT "      Obesity"
370 GOTO EndOfTests
380 SurWeight:
390 PRINT "      Overweight"
400 GOTO EndOfTests
410 Normal:
420 PRINT "      Normal weight"
430 GOTO EndOfTests
440 Underweight:
450 PRINT "      Underweight"
460 EndOfTests:
470 GOSUB Dashes
480 PRINT "Ideal weight (Kg)"
490 PRINT "Min ", Ideal1
500 PRINT "Avg ", Ideal3
510 PRINT "Max ", Ideal2
520 PRINT "===== "
530 PRINT
540 SET FIX=FALSE
550 STOP
560 Dashes:
570 PRINT "-----"
580 RETURN
590 END

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