Metropolia UAS
SMART DEVICES TX00DK02-3003 BACK TO DASHBOARD

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Chapter 6

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Calculating an average, loop structure

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Please use this option only if you find any issues or mistakes in the content. If you have any queries or questions regarding the subject matter, then please use "**Ask a tutor**"

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- (1) For statement done
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- (3) Calculating an average, loop structure done

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Write a program that asks for the students' exam scores (using integers 4 to 10) and calculates the average. The program must accept scores until entry is terminated by a negative integer. Finally, the program prints out the number of scores and the calculated average with two decimal places of precision.

Hint:
You can write your program using either the while or do...while statement.

Example output:

```
The program calculates the average of scores you enter.
End with a negative integer.
Enter score (4-10):7
Enter score (4-10):8
Enter score (4-10):9
Enter score (4-10):10
Enter score (4-10):4
Enter score (4-10):4
Enter score (4-10):5
Enter score (4-10):-1
You entered 7 scores.
Average score: 6.71
```

The output of the program must be exactly the same as the example output (the most strict comparison level)

- program.c

```c
#include <stdio.h>

int main()
{
   int i = 0;
   float sum = 0.0;
   float average;
   float x = 0.0;

   printf("The program calculates the average of scores you enter.\n");
   printf("End with a negative integer.\n");

   while(1) {

      printf("Enter score (4-10):");
      scanf("%f", &x);

      if(x < 0)
         break;

      sum += x;
      i++;

   }

   average = sum / i;

   printf("You entered %d scores.\n", i);
   printf("Average score: %.2f\n", average);
```

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Open Theory Shortcut