**MARKS AWARDED: 100**

Well done ☺

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\* CS1010 AY2011/2 Semester 2 Lab1 Ex2

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\* sap.c

\* Calculating how well an undergraduate in NUS should do

\* to meet their target Cumulative Average Point(CAP)

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\* Loh Wan Xin

\* B02

\*/

#include <stdio.h>

float compute\_sap(int, float, int, float);

int main(void)

{

int mcAttempted, mcAttempting;

float capCurrent, capTarget, sap;

printf("Enter MCs attempted and current CAP: ");

scanf("%d %f", &mcAttempted, &capCurrent);

printf("Enter MCs attempting and target CAP: ");

scanf("%d %f", &mcAttempting, &capTarget);

sap = compute\_sap(mcAttempted, capCurrent, mcAttempting, capTarget);

if (sap > 5.0)

printf("Mission impossible!\n");

else

printf("SAP >= %.2f\n", sap);

return 0;

}

// Compute Targetted Semester Average Point

float compute\_sap(int mc\_attempted, float current\_cap, int mc\_attempting, float target\_cap)

{

float point;

point=(target\_cap\*(mc\_attempted+mc\_attempting)-(mc\_attempted\*current\_cap))/mc\_attempting;

return point;

}