ENG 1106

Fundamentals of Engineering Computation

Lab 1 – Fall 2017

Report

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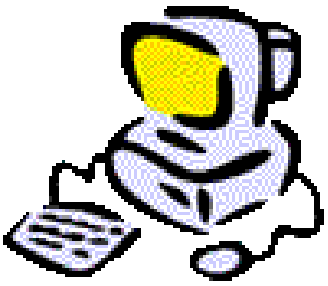
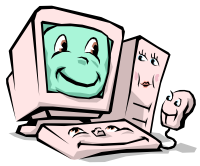




Lab 1: Introduction Programming in C

A. Creating a C Program: Hello World

Hello World C Program:

```
#include <stdio.h>

void main ()

{
printf("Hello World\n");
}
```

Hello World C Program Output:

```
Hello World

Process returned 0 (0x0)   execution time : 3.069 s
Press any key to continue.
```

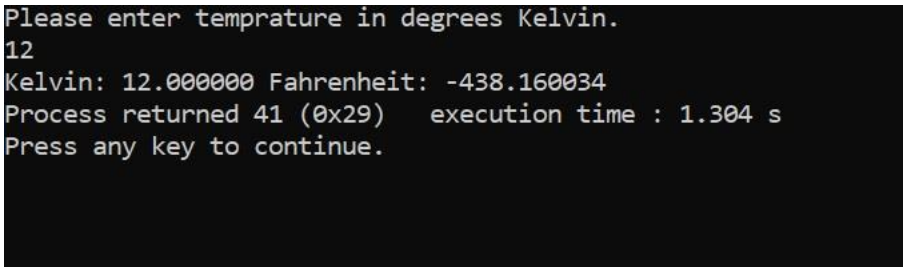
B. Exercise: Temperature Conversion

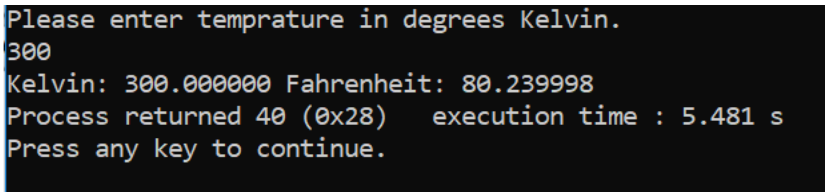
Temperature Conversion Program:

```
#include <stdio.h>

float convertKtoF (float);

 void main()

 {
    float K;
 //int tc;
    float tf;
    printf("Please enter temprature in degrees Kelvin.\n");
    scanf("%f", &K);
    tf=convertKtoF(K);
    printf("Kelvin: %f Fahrenheit: %f", K, tf);
 }
```

```
float convertKtoF(float tk)      {
float (tc);
tc=tk-273.2;
float tf;
tf=(tc*9/5)+32;
return tf;
}
```

Temperature Conversion Program Output:

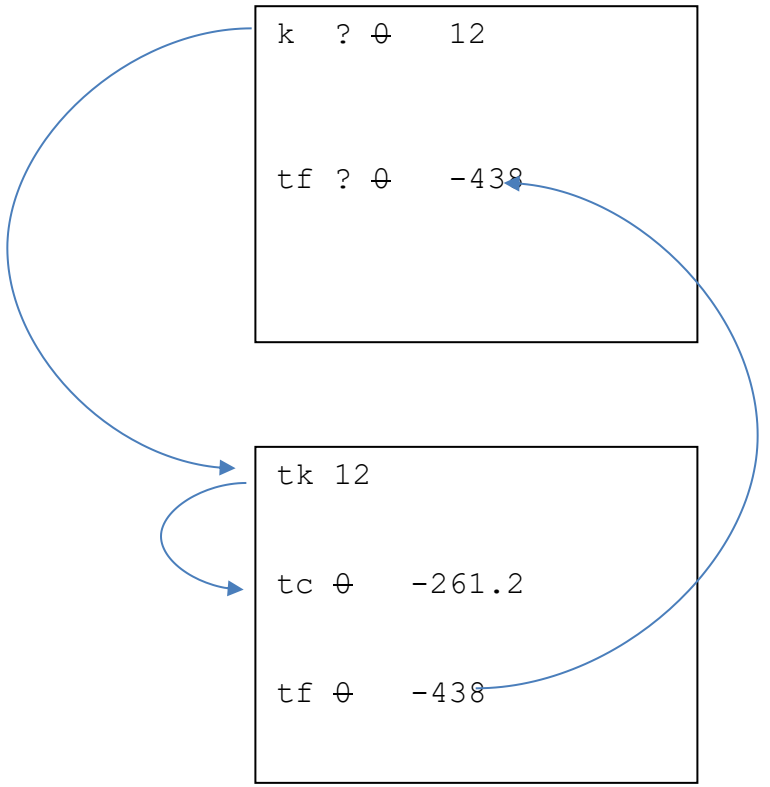




Code Memory

```
 {
    float K;
    float tf;
    printf("Please enter temprature in degrees
Kelvin.\n");
    scanf("%f", &K);
    tf=convertKtoF(K);
    printf("Kelvin: %f Fahrenheit: %f", K, tf);
 }


    float convertKtoF(float tk)     {
    float (tc);
    tc=tk-273.2;
    float tf;
    tf=(tc*9/5)+32;
    return tf;
    }
```

Working Memory



CPU