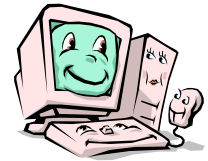


*ENG 1106*  
*Fundamentals of Engineering Computation*

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:

```
Please enter temprature in degrees Kelvin.  
12  
Kelvin: 12.000000 Fahrenheit: -438.160034  
Process returned 41 (0x29)   execution time : 1.304 s  
Press any key to continue.
```

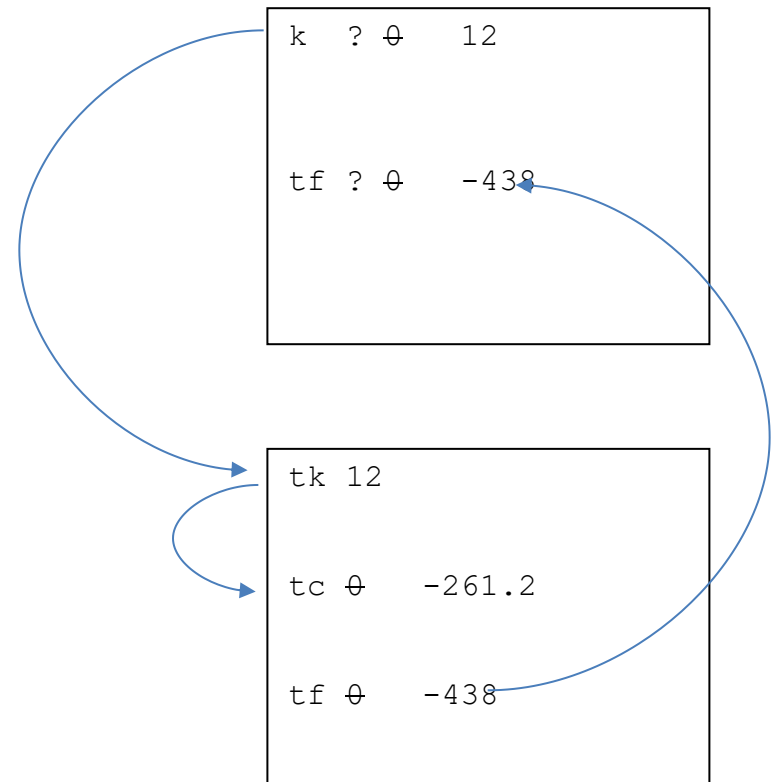
```
Please enter temprature in degrees Kelvin.  
300  
Kelvin: 300.000000 Fahrenheit: 80.239998  
Process returned 40 (0x28)   execution time : 5.481 s  
Press any key to continue.
```

# 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

