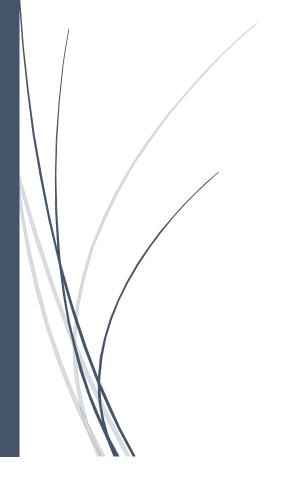
## CST 365-3

## SYSTEMS LEVEL PROGRAMMING

Assignment 5



UWU/CST/17/054
Shindujah Arudchelvan
Computer Science and Technology
Faculty of Applied Sciences

1. Write a C program to print "Hello, World".

```
#include<stdio.h>
int main()
{
printf("Hello, World\n");
}
```

```
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ vi hello.c
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ gcc hello.c
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ ./a.out
Hello, World
```

2. Write a C program which uses following formula to print the Fahrenheit temperatures and their Centigrade or Celsius.

C=(5/9)(F-32)

- Using while loop

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
  int i;
  int j=1;
  float f,c;
  printf("Enter the temperature count that you want?");

scanf("%d", &i);

while(j<=i)
{
  printf("Enter the Temperture in Fahrenheit:\n");
  scanf("%f", &f);
  c=(f-32)*5/9;
  printf("Temperture in Celcius: %.3f\n",c);
  j=j+1;
}
  return 0;
}</pre>
```

```
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ vi temperature.c
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ gcc temperature.c
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ ./a.out
Enter the temperature count that you want?3
Enter the Temperture in Fahrenheit:
32
Temperture in Celcius: 0.000
Enter the Temperture in Fahrenheit:
72
Temperture in Celcius: 22.222
Enter the Temperture in Fahrenheit:
67
Temperture in Celcius: 19.444
```

## -Using for loop

```
#include<stdio.h>
#include<stdib.h>
int main()
{
float c,f;
int i,j;
printf("Enter the count of temperture count that you want?");

scanf("%d", &i);
for(j=1; j<=i; j++)
{
printf("Enter the Fahrenheit Temperture:");
scanf("%f",&f);
c=(f-32)*5/9;
printf("temperature in Celcius: %.3f\n",c);
}
return 0;
}</pre>
```

```
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ vi temperature1.c
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ gcc temperature1.c
user@user-HP-Pavilion-Laptop-14-bk0xx:~$ ./a.out
Enter the count of temperture count that you want?3
Enter the Fahrenheit Temperture:32
temperature in Celcius: 0.000
Enter the Fahrenheit Temperture:58
temperature in Celcius: 14.444
Enter the Fahrenheit Temperture:78
temperature in Celcius: 25.556
```