

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right, overlapping the vertical bar, with the text 'CST 365-3' inside it.

CST 365-3

SYSTEMS LEVEL PROGRAMMING

Assignment 5

Several thin, curved, light blue lines originate from the bottom left corner and sweep upwards and to the right, creating a sense of movement or a stylized wave.

UWU/CST/17/054

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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;
}
```

```
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
Temperature in Celcius: 0.000
Enter the Temperture in Fahrenheit:
72
Temperature in Celcius: 22.222
Enter the Temperture in Fahrenheit:
67
Temperature in Celcius: 19.444
```

-Using for loop

```
#include<stdio.h>
#include<stdlib.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;
}
```

```
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
```