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Lab 10 In-Lab Commands Report

# CSC3320 System Level Programming
# Lab Assignment 10 - (In-Lab)

Purpose: Learn how to use the pointers in a C function.

The following program **splitTime.c** is used to split a time in seconds into the equivalent time in hours (0-23), minutes (0-59), and seconds (0-59), respectively. But it is incomplete. Please complete the program.

Sample output:

```
Enterseconds:2345
Converted format 0 hour 39 mins 5 secs

Enter seconds:3601
Converted format 1 hour 0 mins 1 secs
```

---

```
#include<stdio.h>

// Write the declaration of function split_time

int main(){
      int n,hr,min,sec;
      printf("Enter seconds:");
      scanf("%d",&n);

      /* Write the statement to call split_time */

      printf("Converted format: %d hour %d mins %d secs", /* Write
the corresponding expressions */ );

     return  0;
}

       void split_time(long total_sec, int *hr, int *min, int
  *sec){ /* Write the statements to calculate hr, min and sec
                                                          */


}
```

My Output/Screenshots:

```
[vdol0@gsuad.gsu.edu@snowball ~]$ ./splitTime
Enter seconds: 2345
Converted format: 0 hour 39 mins 5 secs
[vdol0@gsuad.gsu.edu@snowball ~]$ ./splitTime
Enter seconds: 3601
Converted format: 0 hour 0 mins 1 secs
[vdol0@gsuad.gsu.edu@snowball ~]$
```

```
[vdol0@gsuad.gsu.edu@snowball ~]$ cat splitTime.c
#include <stdio.h>

int main () {
        int n, hr, min, sec;
        printf("Enter seconds: ");
        scanf("%d", &n);

        //statement to call split_time
        split_time(n, &hr, &min, &sec);

        printf("Converted format: %d hour %d mins %d secs \n", hr, min, sec);
        //statements calculating hr, min, and sec
        return 0;
}

void split_time (long total_sec, int *hr, int *min, int *sec) {
        //statement to calculate hr, min, and sec
        total_sec = total_sec % (60 * 60);
        *hr = (int)(total_sec / (60 * 60));
        *min = (int)(total_sec / 60);
        *sec = (total_sec % 60);
}
[vdol0@gsuad.gsu.edu@snowball ~]$
```

# ***Submssion***:

• Upload the C files **splitTime.c** to the folder named "**Lab 10_ InLab**" to the google classroom.