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**Subject: Programing Fundamentals LAB**

**Submitted to:**

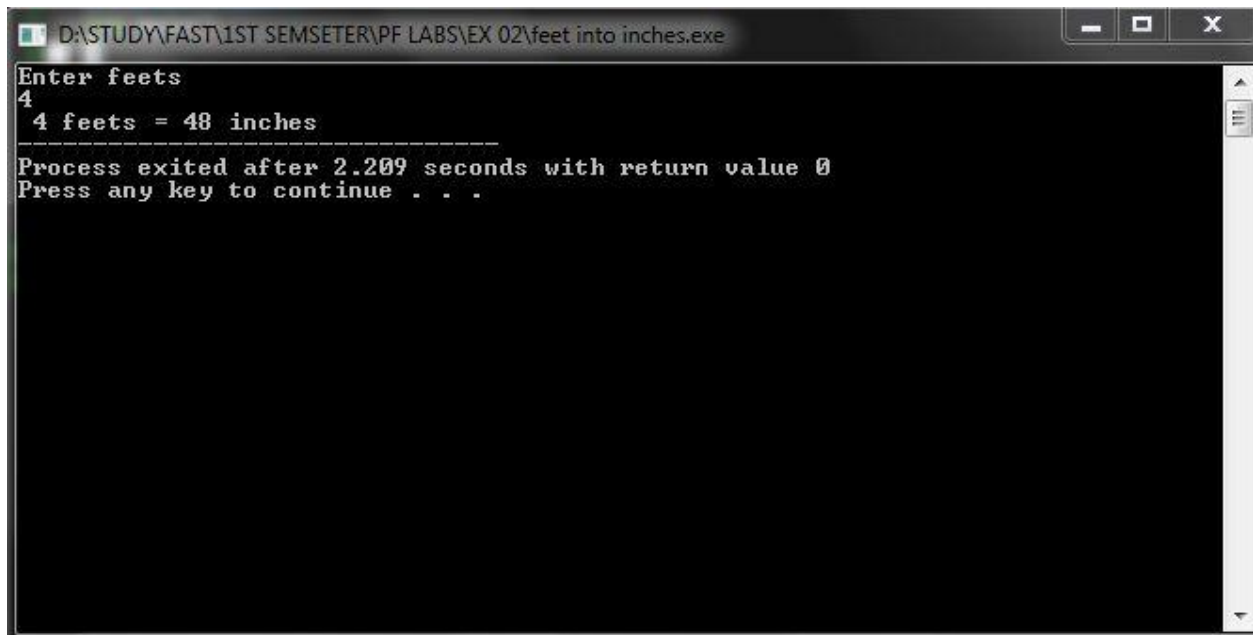
**Problem: 1**

**Write a Program in C that takes feet from user convert it into Inches.**

**1 Feet = 12 inches**

```
#include<stdio.h>

int main()
{
    int feet , inches ;
    printf("Enter feets \n");
    scanf("%d",&feet);
    inches=feet*12;
    printf(" %d feets = %d inches ", feet,inches);
    return 0;
}
```

A screenshot of a Windows command prompt window. The title bar shows the file path "D:\STUDY\FAST\1ST SEMSETER\PF LABS\EX 02\feet into inches.exe". The command prompt displays the following text: "Enter feets", followed by the user input "4" on a new line. The next line shows the output "4 feets = 48 inches". Below this, a separator line of dashes is shown. The final two lines of output are "Process exited after 2.209 seconds with return value 0" and "Press any key to continue . . .". The window has standard Windows controls (minimize, maximize, close) in the top right corner.

```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\EX 02\feet into inches.exe
Enter feets
4
4 feets = 48 inches
-----
Process exited after 2.209 seconds with return value 0
Press any key to continue . . .
```

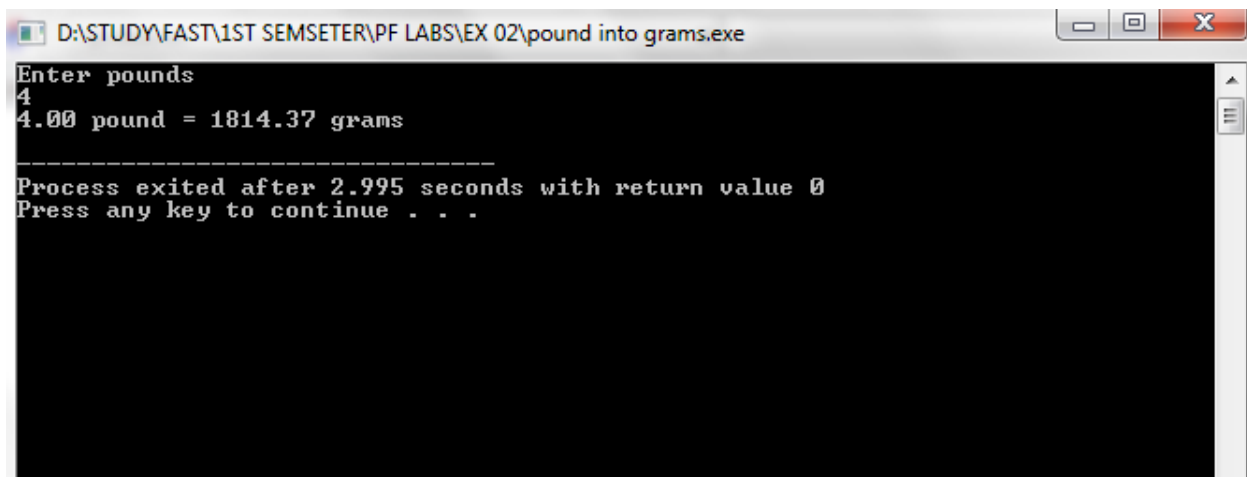
**Problem: 2**

**Write a C program that takes quantity in pounds from user and convert it into grams.**

**1 pound = 453.592 gram**

```
#include<stdio.h>

int main()
{
    float pound , gram;
    printf("Enter pounds \n");
    scanf("%f",&pound);
    gram=453.592*pound;
    printf("%.2f pound = %.2f grams \n",pound, gram);
    return 0;
}
```



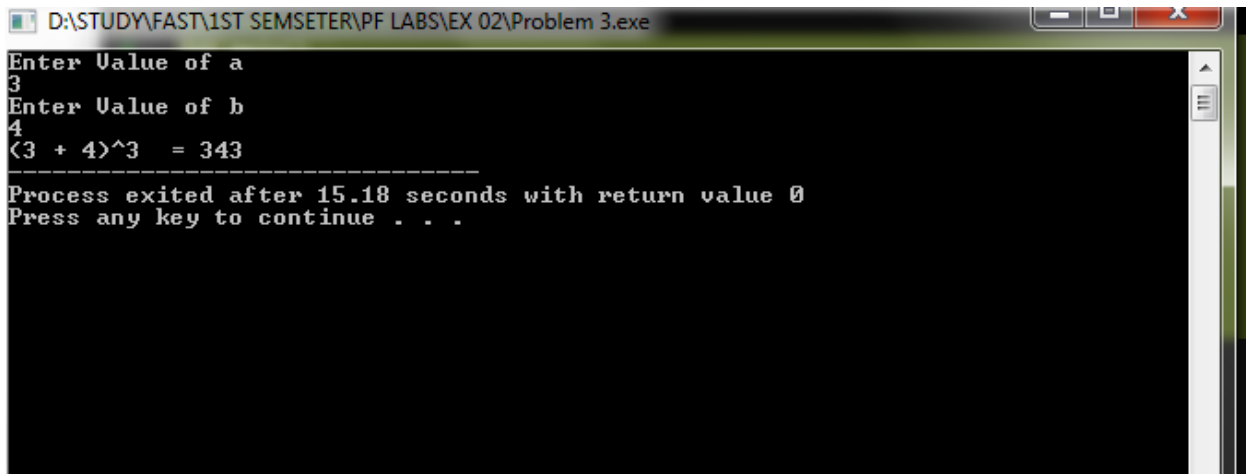
```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\EX 02\pound into grams.exe
Enter pounds
4
4.00 pound = 1814.37 grams
-----
Process exited after 2.995 seconds with return value 0
Press any key to continue . . .
```

**Problem: 3**

Write a C program to compute  $(a + b)^3$  where the value of a and b will be provided by the user.

```
#include<stdio.h>

int main()
{
    int a, b , ans;
    printf("Enter Value of a \n");
    scanf("%d",&a);
    printf("Enter Value of b \n");
    scanf("%d",&b);
    ans=a*a*a + b*b*b + 3*a*b*(a + b);
    printf("(%d + %d)^3 = %d",a , b ,ans);
    return 0;
}
```



```
D:\STUDY\FAST\1ST SEMSETER\PF LABS\EX 02\Problem 3.exe
Enter Value of a
3
Enter Value of b
4
(3 + 4)^3 = 343
-----
Process exited after 15.18 seconds with return value 0
Press any key to continue . . .
```

#### Problem: 4

Write a program that takes seconds from the user and displays the time in Hours, minutes and seconds' format.

E.g. if the user enters 3700, the output of the program should be

1 Hour 1 minutes and 40 seconds.

```
#include<stdio.h>
```

```
int main()
```

```
{
```

```
int seconds, minutes, hour ,sec;
```

```
printf("Enter time in seconds \n");
```

```
scanf("%d",&seconds);
```

```
hour= seconds/3600;
```

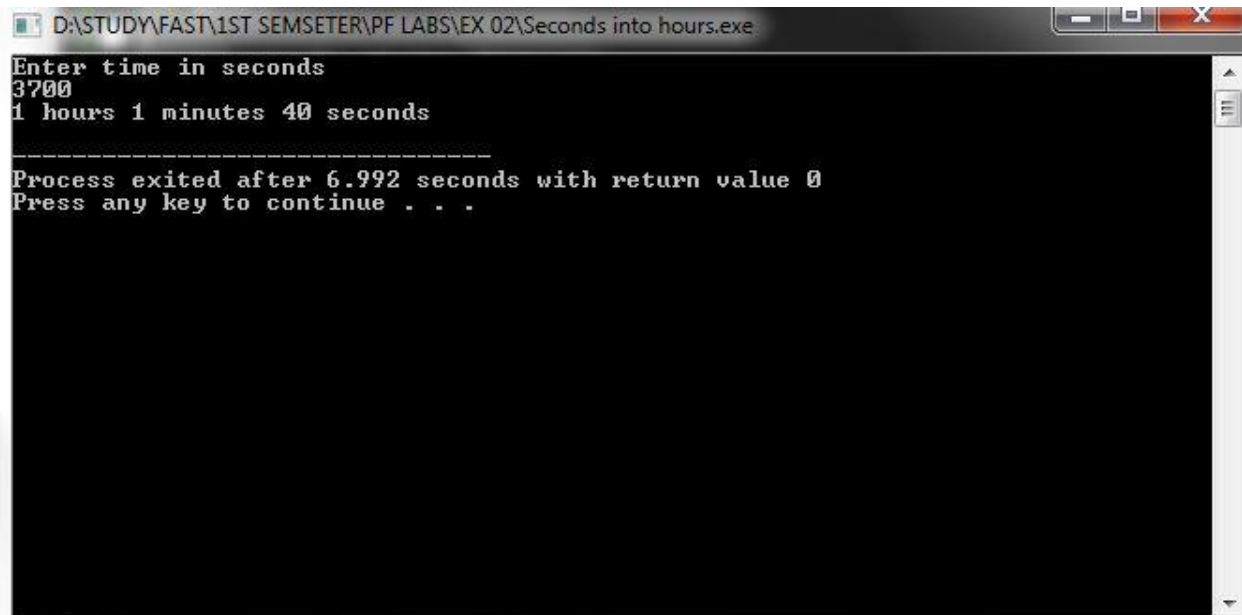
```
minutes=(seconds-(3600*hour))/60;
```

```
sec=(seconds-(hour*3600)-(minutes*60));
```

```
printf("%d hours %d minutes %d seconds \n", hour , minutes , sec );
```

```
return 0;
```

```
}
```



The screenshot shows a Windows command prompt window titled "D:\STUDY\FAST\1ST SEMSETER\PF LABS\EX 02\Seconds into hours.exe". The prompt displays the following text:

```
Enter time in seconds
3700
1 hours 1 minutes 40 seconds

-----
Process exited after 6.992 seconds with return value 0
Press any key to continue . . .
```

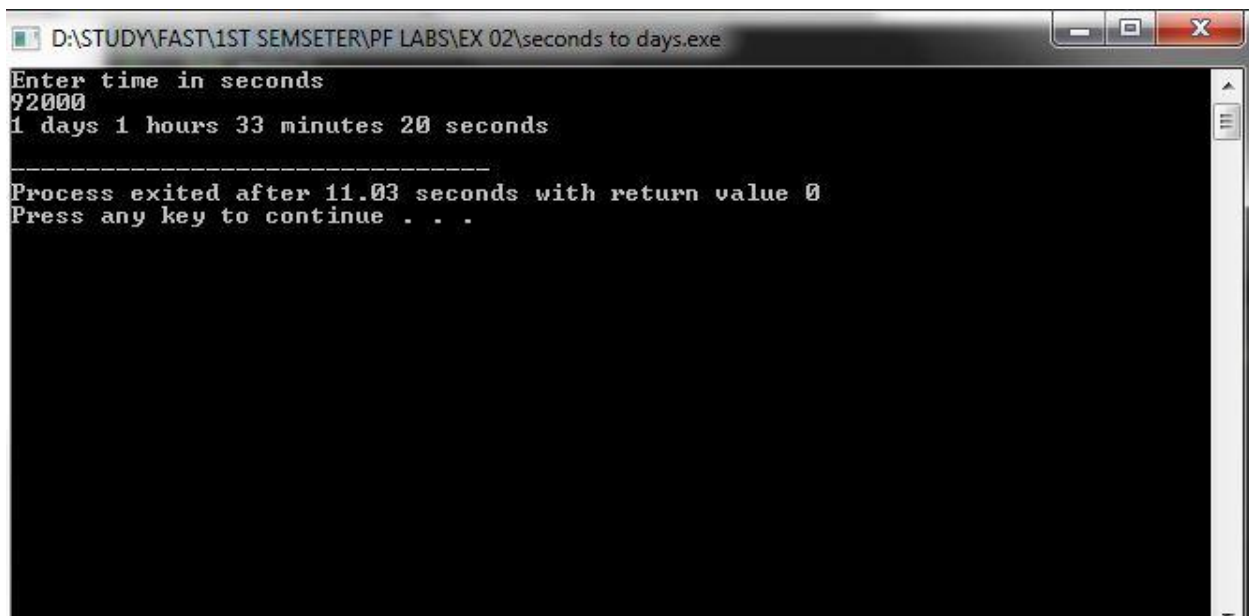
### Problem 5:

Write a program that takes seconds from the user and displays the time in Days, Hours, minutes and seconds' format.

```
#include<stdio.h>

int main()
{
    int seconds, minutes, hour ,sec, day ;
    printf("Enter time in seconds \n");
    scanf("%d",&seconds);
    day = seconds/(24*60*60);
    hour= (seconds-day*86400)/3600;
    minutes=(seconds- hour * 3600 - day*86400)/60;
    sec=(seconds-day*86400-(hour*3600)-(minutes*60));

    printf("%d days %d hours %d minutes %d seconds \n",day, hour , minutes , sec );
    return 0;
}
```



The screenshot shows a Windows command prompt window titled "D:\STUDY\FAST\1ST SEMSETER\PF LABS\EX 02\seconds to days.exe". The prompt displays the following text:

```
Enter time in seconds
92000
1 days 1 hours 33 minutes 20 seconds

-----
Process exited after 11.03 seconds with return value 0
Press any key to continue . . .
```