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Subject: Programing Fundamentals LAB

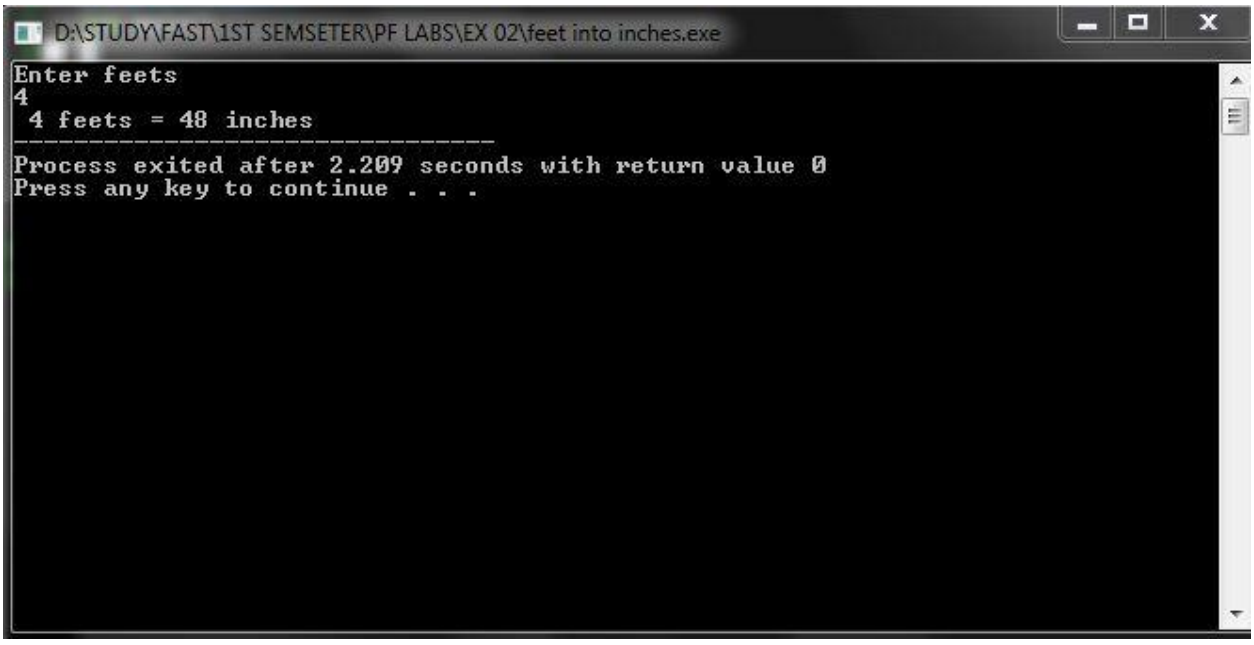
Submitted to:

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;

}
```

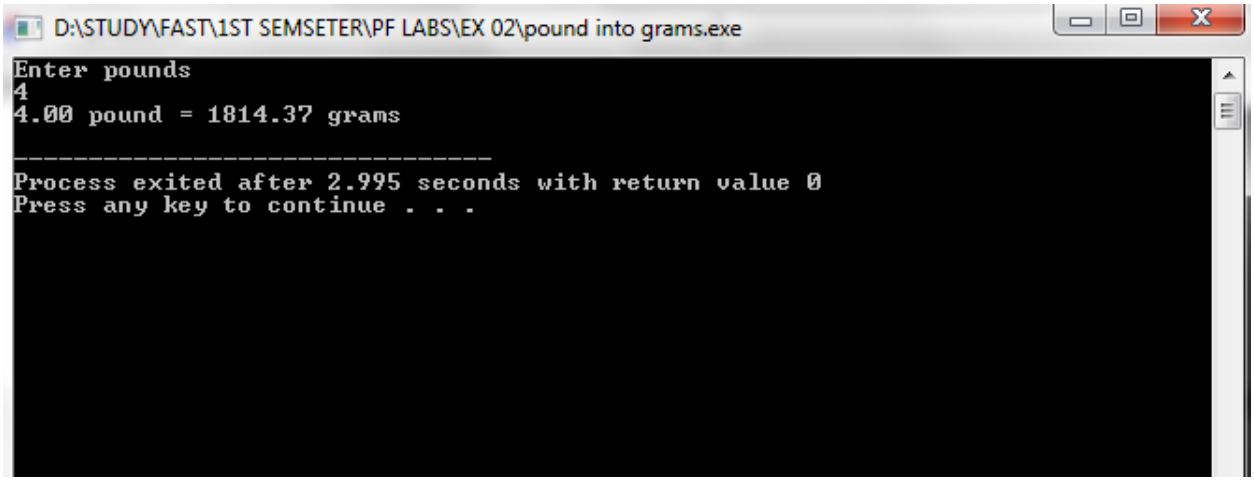


Problem: 2

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

1 pound = 453.592 gram

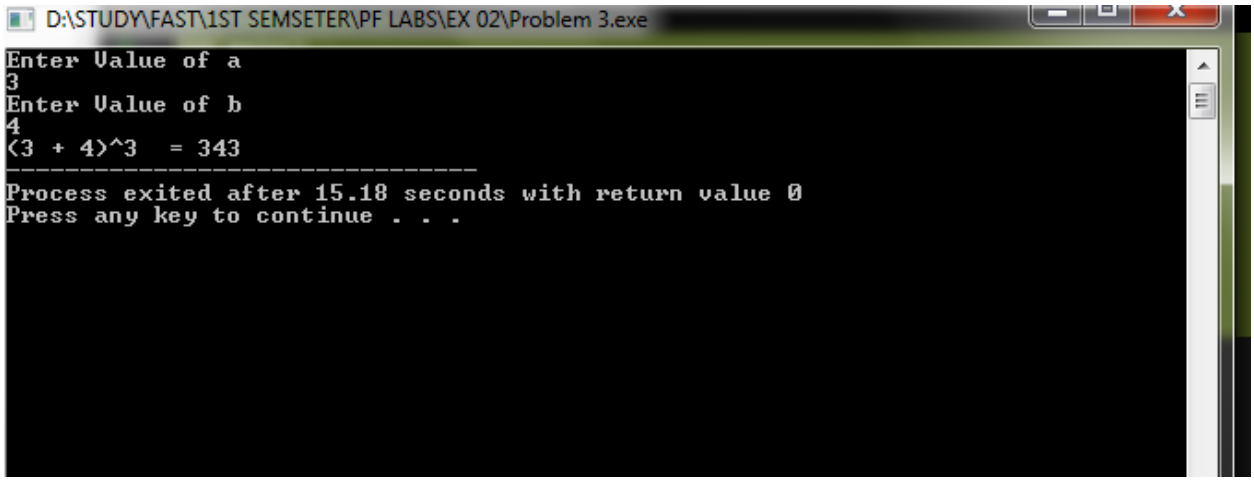
```
#include<stdio.h>
int main()
{
float pound , gram;
printf("Enter pounds \n");
scanf("%f",&pound);
gram=453.592*pound;
printf("%.2f pound = %.2f grams \n",pound, gram);
return 0;
}
```



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;
}
```



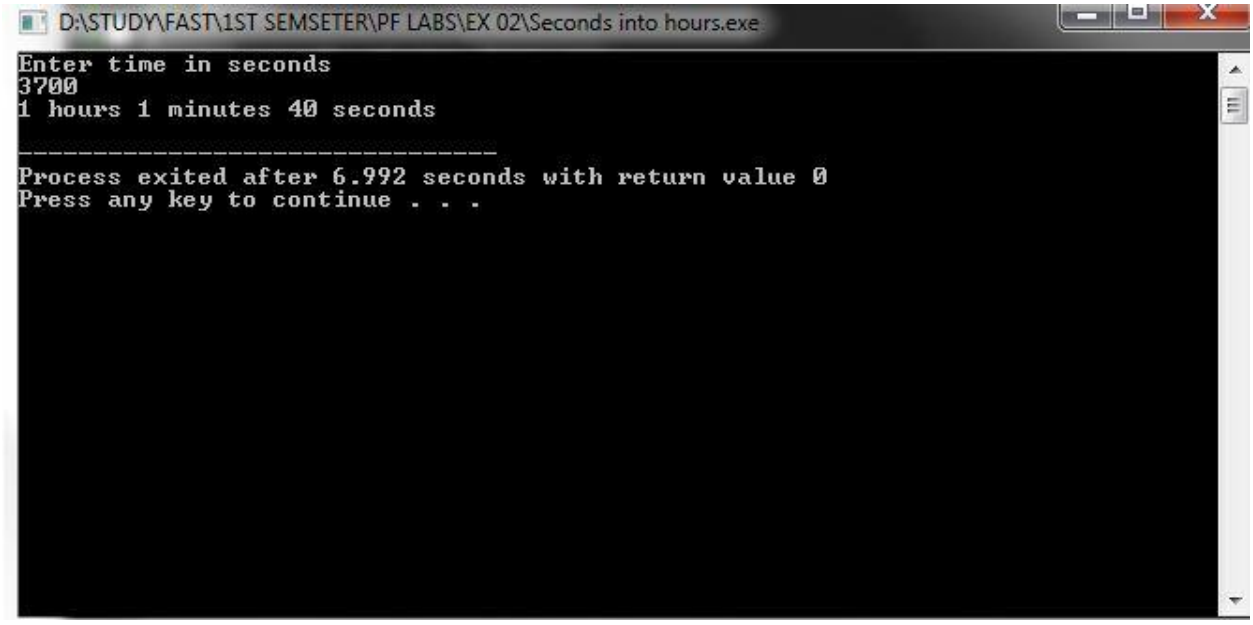
Problem: 4

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;

}
```



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;
}
```