NATIONAL UNIVERSITY OF COMPUTER &EMERGING SCIENCES PESHAWAR CAMPUS

Programming fundamentals(lab)
Lab task#2

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Submitted To
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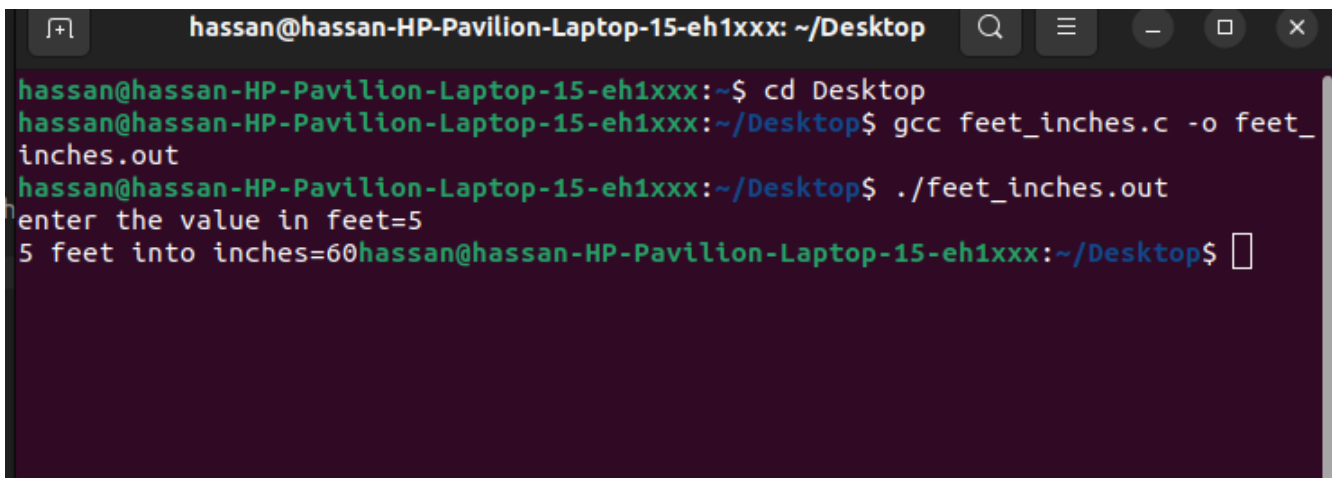
Problem #1

write a c Program for converting the value of feet into inches?

Solution:

```c
#include<stdio.h>

int main()
{
int inches;
int feet;
printf("enter the value in feet=");
scanf("%d",&feet);
inches=feet*12;
printf("%d feet into inches=%d",feet,inches);
return 0;
}
```

output:
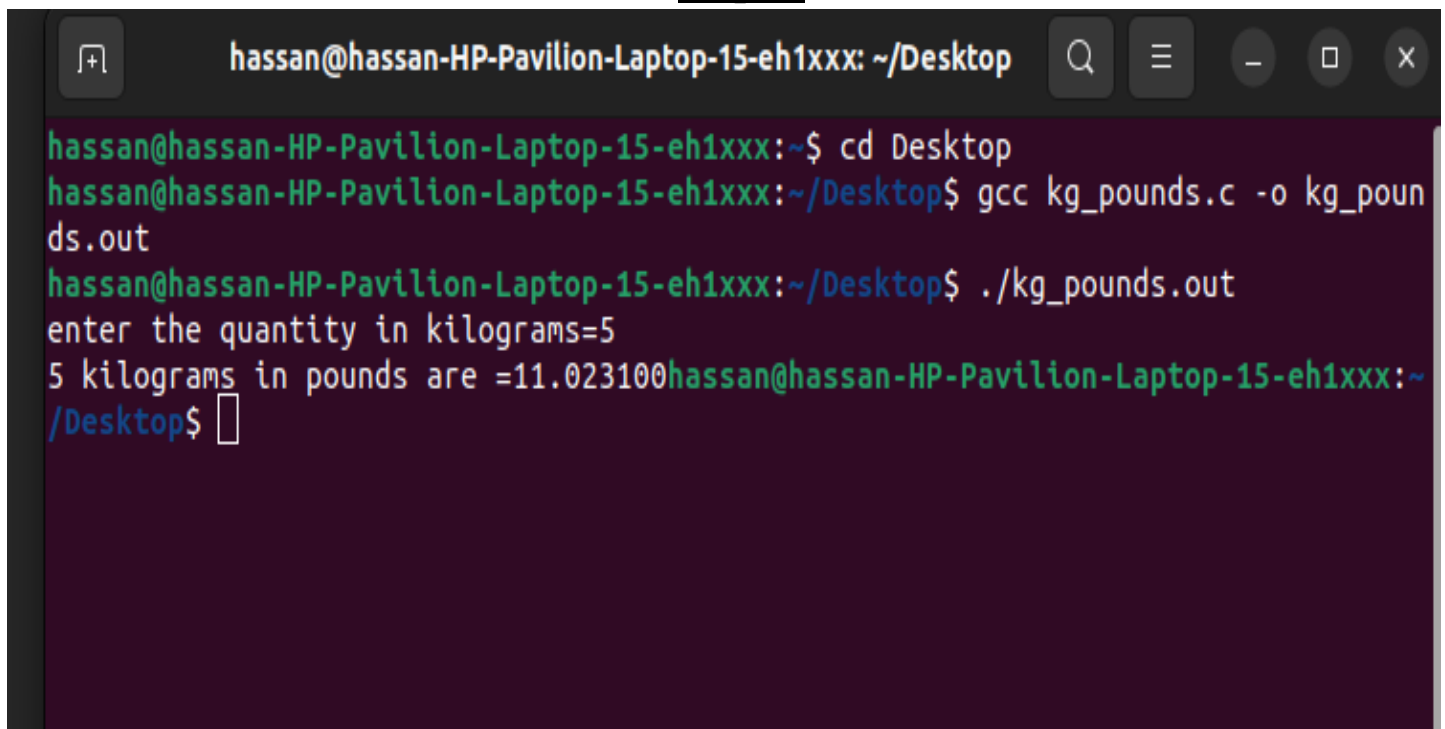

Problem#2

Write a C program that takes quantity in kilograms and convert it into pounds?

1 kilogram=2.20462pounds

solution:

```c
#include<stdio.h>
int main()
{
int kg;
float pound;
printf("enter the quantity in kilograms=");
scanf("%d",&kg);
pound=kg*2.20462;
printf("%d kilograms in pounds are =%f",kg,pound);
return 0;
}
```

output:

Problem#3

write a C program to compute $(a-b)^3$ where the value of a and b will be
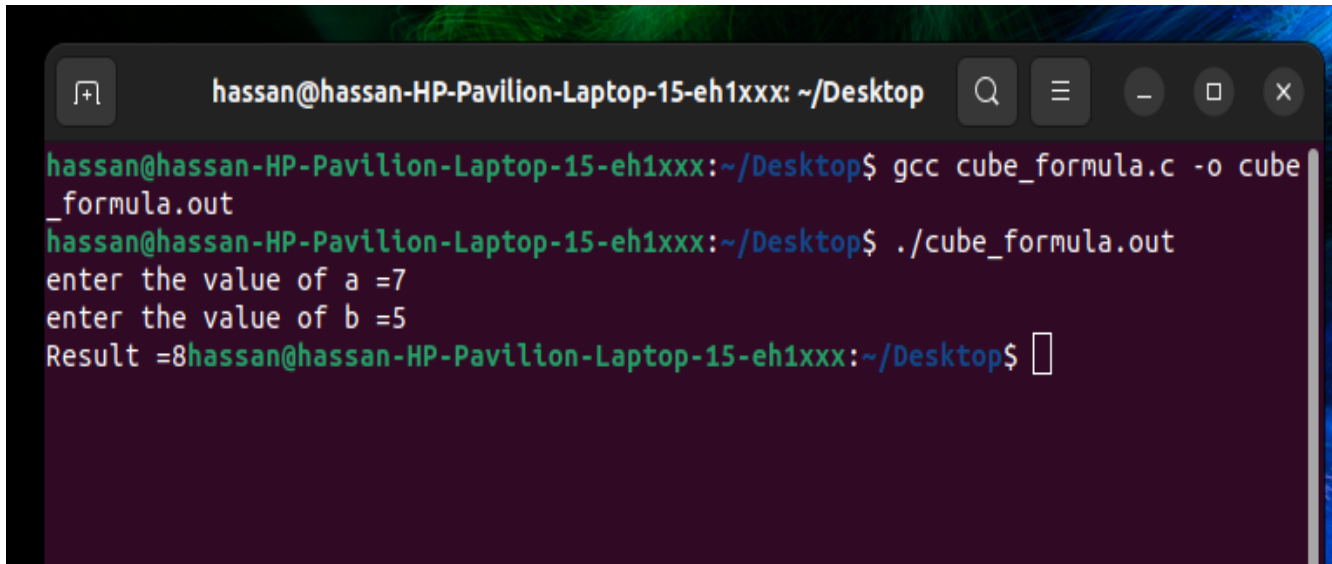provided by the user.
The formula $(a-b)^3$ is given below.

$$(a-b)^3 = a^3 - b^3 - 3ab(a-b)$$

solution:

```c
#include<stdio.h>
int main()
{
int a , b , ans;
printf("enter the value of a =");
scanf("%d",&a);
printf("enter the value of b =");
scanf("%d",&b);
ans=(a*a*a)-(b*b*b)-3*a*b*(a-b);
printf("Result =%d",ans);
return 0;
}
```
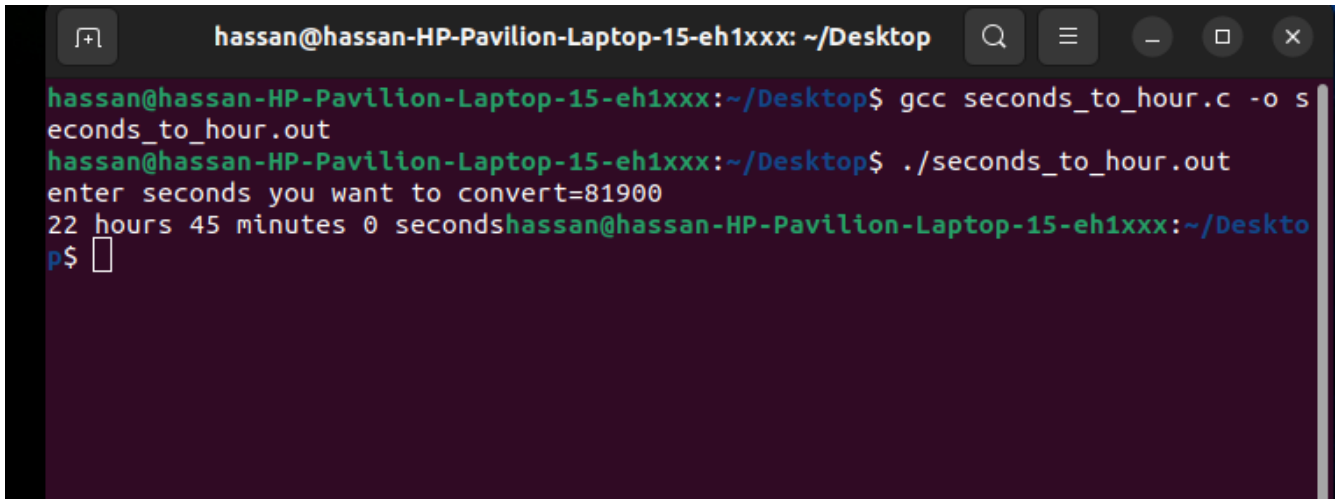
Problem#4

write a program that take 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 minute and 40 seconds.

Solution:

```
#include<stdio.h>
int main()
{
int seconds , hours , min;
printf("enter seconds you want to convert=");
scanf("%d",&seconds);
hours=seconds/3600;
seconds=seconds%3600;
min=seconds/60;
seconds=seconds%60;
printf("%d hours %d minutes %d seconds",hours,min,seconds);
return 0;
```

}

output:

Problem#5

Write a C program that takes input in seconds from the user and display the time in Days Hours Minutes and Seconds' format.
E.g. if the user enters 3700, the output of the program should be 0 day 1 Hour! Minute and 40 seconds.
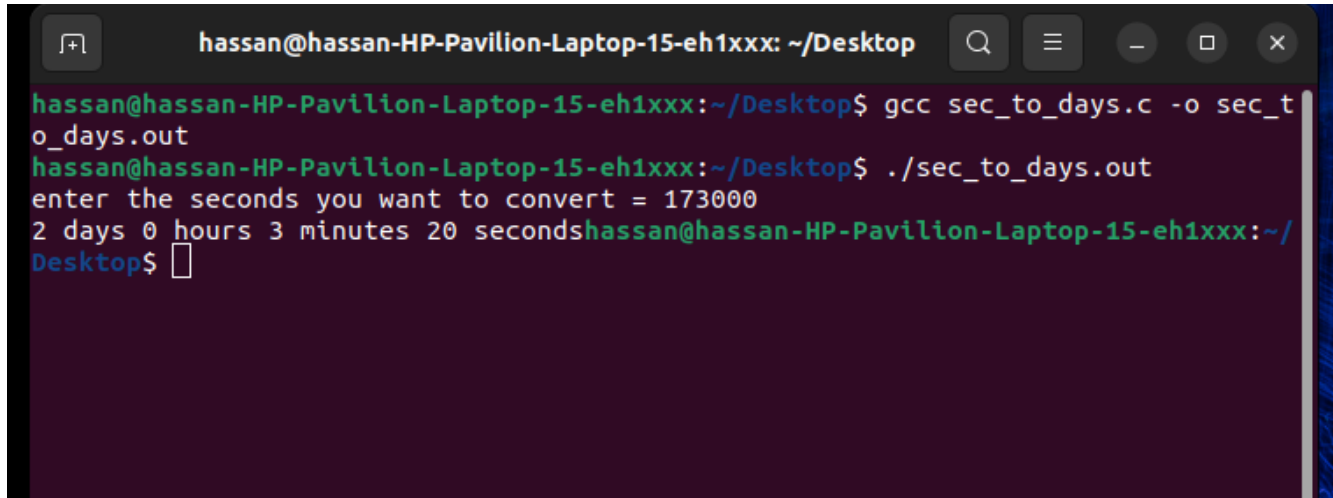If the user enters 92000, the output of the program should be 1 day 1 hour 33 minutes and 20 seconds.

Solution:

```c
#include<stdio.h>
int main()
{
int sec , days , hours , min;
printf("enter the seconds you want to convert = ");
scanf("%d",&sec);
days=sec/86400;
sec=sec%86400;
hours=sec/3600;
```

```
sec=sec%3600;
min=sec/60;
sec=sec%60;
printf("%d days %d hours %d minutes %d seconds",days,hours,min,sec);
return 0;
}
```

<u>output:</u>