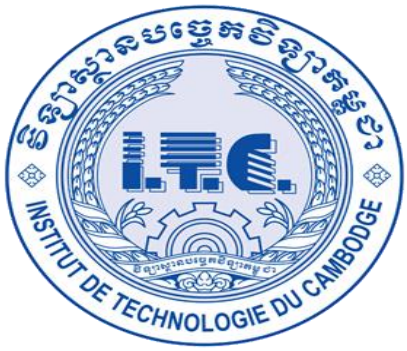
Institute of technology of Cambodia

Department of Information and Communication Engineering



TP2-Using scanf and math library

TP: Algorithm and Programming

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TP2: Using scanf and math library

Contents

Problem1: Write a C programing to display the following message.

Start here | Untitled1.c

```c
#include<stdio.h>

main()
{

    printf("########################################");
    printf("\n// G%cnie Information et Communication //",130);
    printf("\n########################################");
}
```

```
C:\Users\Admin\OneDrive\Untitled1.exe
########################################
// Génie Information et Communication //
########################################
Process returned 0 (0x0)   execution time : 0.027 s
Press any key to continue.
```

Problem2: Write a C programing to get a number from a user.

```c
#include<stdio.h>

main()
{
    int a,b,n;
    printf(" Input n:  ");
    scanf("%d",&n);

    a = n*n;
    b = n*n*n;
    printf("Square of 2 is %d And Cube of 2 is %d",a,b);
}
```

```
C:\Users\Admin\OneDrive\Untitled1.exe
 Input n:  2
Square of 2 is 4 And Cube of 2 is 8
Process returned 0 (0x0)   execution time : 5.590 s
Press any key to continue.
```

Problem3: Write a c programing that can convert the time.

```c
#include<stdio.h>

main()
{

    int h,m,s;
    printf("Enter hour : ");
    scanf("%d",&h);
    printf("Enter minute : ");
    scanf("%d",&m);
    printf("Enter second : ");
    scanf("%d",&s);

    s = h*3600 + m*60 + s;

    printf("The all about time is equal to %d second.",s);
    printf("\n5h45m50s equal to %d second.",s);
}
```

```
C:\Users\Admin\OneDrive\Ex.exe
Enter hour : 5
Enter minute : 45
Enter second : 50
The all about time is equal to 20750 second.
5h45m50s equal to 20750 second.
Process returned 0 (0x0)   execution time : 8.035 s
Press any key to continue.
```

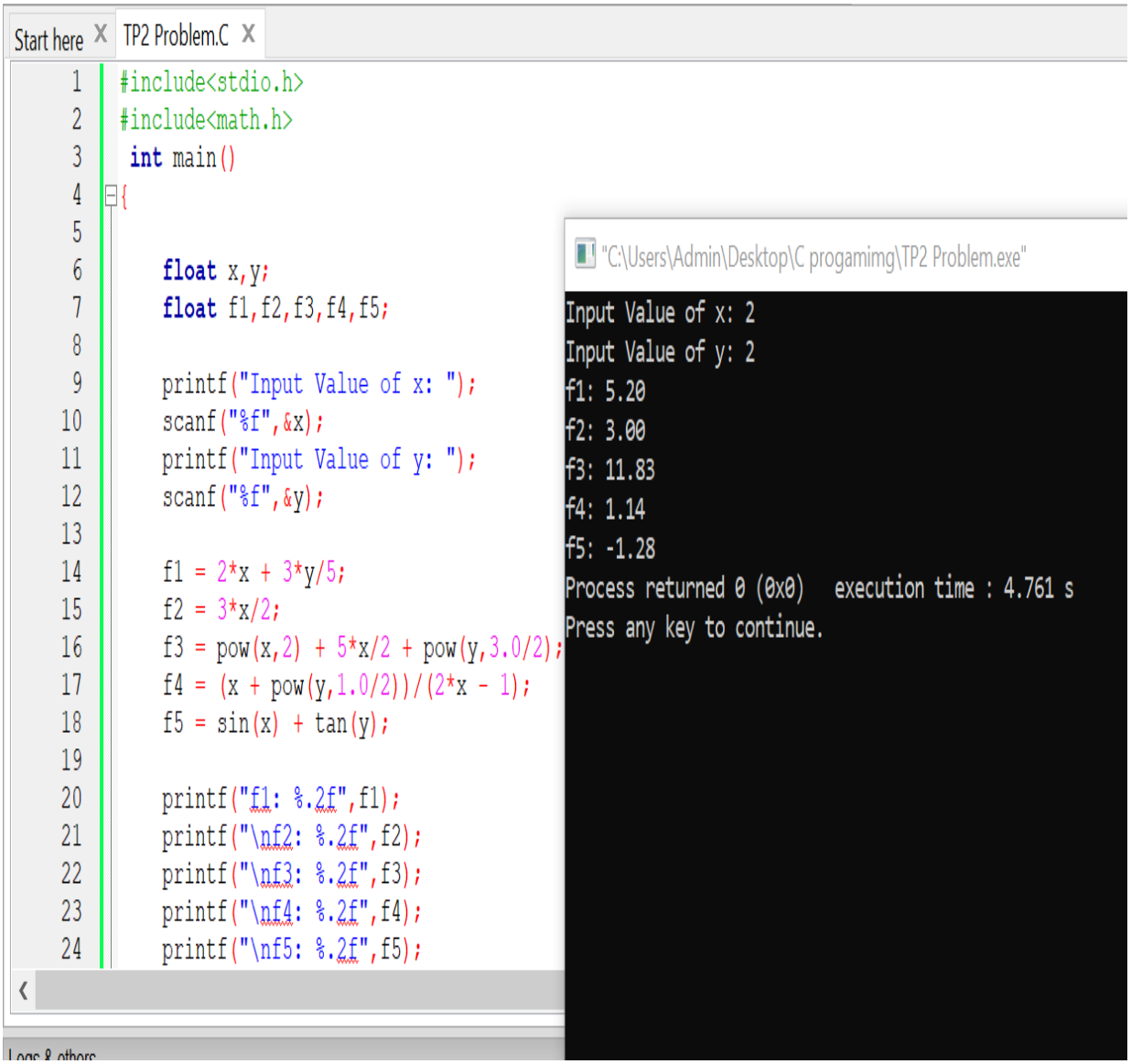
Problem4: Write a C programing to convert time to second to a time format including hour, minute, and second.

Start here | Untitled1.c

```c
#include<stdio.h>

main()
{

    int h,m,s;
    printf("Input time in second: ");
    scanf("%d",&s);
    h = s/3600;
    m = (s%3600)/60;
    s = s - (h*3600 + m*60);

    printf("It is: %dh %dm %ds",h,m,s);
}
```

```
C:\Users\Admin\OneDrive\Untitled1.exe
Input time in second: 3666
It is: 1h 1m 6s
Process returned 0 (0x0)   execution time : 7.369 s
Press any key to continue.
```

Problem5: Write a c programing that calculate some formula and display result.



```c
#include<stdio.h>
#include<math.h>
 int main()
{

    float x,y;
    float f1,f2,f3,f4,f5;

    printf("Input Value of x: ");
    scanf("%f",&x);
    printf("Input Value of y: ");
    scanf("%f",&y);

    f1 = 2*x + 3*y/5;
    f2 = 3*x/2;
    f3 = pow(x,2) + 5*x/2 + pow(y,3.0/2);
    f4 = (x + pow(y,1.0/2))/(2*x - 1);
    f5 = sin(x) + tan(y);

    printf("f1: %.2f",f1);
    printf("\nf2: %.2f",f2);
    printf("\nf3: %.2f",f3);
    printf("\nf4: %.2f",f4);
    printf("\nf5: %.2f",f5);
```

```
"C:\Users\Admin\Desktop\C progamimg\TP2 Problem.exe"
Input Value of x: 2
Input Value of y: 2
f1: 5.20
f2: 3.00
f3: 11.83
f4: 1.14
f5: -1.28
Process returned 0 (0x0)   execution time : 4.761 s
Press any key to continue.
```