



Mastering Embedded System

Online Diploma

Learn In Depth

assignment

home work 1

unit 2 lection 3 e basics

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EX1 : Write C Program to Print a Sentence.

```
main.c
1 #include <stdio.h>
2 int main() {
3     printf("Create your own world with love ,then do whatever you want");
4     return 0;
5 }
6
```

Problems Tasks Console Properties

<terminated> (exit value: 0) dfghj.exe [C/C++ Application] C:\Users\dell\workspace\dfghj\Debug\dfghj.exe (3/26/23, 11:38 PM)

Create your own world with love ,then do whatever you want

EX2: Write C Program to Print a Integer Entered by a User.

```
main.c
1 #include <stdio.h>
2 int main() {
3     int x;
4     printf("Enter a integer: ");
5     fflush(stdout);
6     scanf("%d", &x);
7     printf("You entered:%d", x);
8     return 0;
9 }
```

Problems Tasks Console Properties

<terminated> (exit value: 0) dfghj.exe [C/C++ Application] C:\Users\dell\workspace\dfghj\De

Enter a integer: 252

You entered:252

EX3 : Write C Program to Add Two Integers

```
main.c
1 #include <stdio.h>
2 int main() {
3     int x, y, sum;
4     printf("Enter two integer: ");
5     fflush(stdout);
6     scanf("%d %d", &x, &y);
7     sum = x + y;
8     printf("Sum: %d", sum);
9     return 0;
10 }
```

```
Problems Tasks Console Properties
<terminated> (exit value: 0) dfgjh.exe [C/C++ Applic
Enter two integer: 25
25
Sum: 50
```

EX4 : Write C Program to Multiply two Floating Point Numbers

```
main.c
1 #include <stdio.h>
2 int main() {
3     float x, y, sum;
4     printf("Enter two integer: ");
5     fflush(stdout);
6     scanf("%f %f", &x, &y);
7     sum = x * y;
8     printf("Sum: %f", sum);
9     return 0;
10 }
11
```

```
<terminated> (exit value: 0) dfgjh.exe [C/C++ Applic
Enter two integer: 2.4
1.1
Sum: 3.500000
```

EX5: Write C Program to Find ASCII Value of a Character

```
main.c
1 #include <stdio.h>
2 int main() {
3     char x;
4     printf("Enter a character: ");
5     fflush(stdout);
6     scanf("%c", &x);
7     printf("ASCII value of %c = %d", x, x);
8     return 0;
9 }
10
```

Problems Tasks Console Properties
<terminated> (exit value: 0) dfghj.exe [C/C++ Applicat
Enter a character: G
ASCII value of G = 71

EX6: Write Source Code to Swap Two Numbers

```
main.c
1 #include <stdio.h>
2 int main() {
3     float x, y, z;
4     printf("Enter number of a: ");
5     fflush(stdout);
6     scanf("%f", &x);
7     printf("Enter number of b: ");
8     fflush(stdout);
9     scanf("%f", &y);
10    z = x;
11    x = y;
12    y = z;
13    printf("After swapping, value of a %f\n", x);
14    printf("After swapping, value of b %f", y);
15    return 0;
16 }
17
```

Problems Tasks Console Properties
<terminated> (exit value: 0) dfghj.exe [C/C++ Application] C:\Users\dell\workspace\d
Enter number of a: 2.5
Enter number of b: 1.5
After swapping, value of a 1.500000
After swapping, value of b 2.500000

EX7:

it is an interview trick

Write Source Code to Swap Two Numbers without temp variable.

```
main.c
1 #include <stdio.h>
2 int main() {
3     float x, y;
4     printf("Enter number of a: ");
5     fflush(stdout);
6     scanf("%f", &x);
7     printf("Enter number of b: ");
8     fflush(stdout);
9     scanf("%f", &y);
10    x = x + y;
11    y = x - y;
12    x = x - y;
13
14    printf("After swapping, value of a: %f\n", x);
15    printf("After swapping, value of b: %f", y);
16    return 0;
17 }
```

```
Problems Tasks Console Properties
<terminated> (exit value: 0) dfghj.exe [C/C++ Application] C:\Users\dell\workspace\dfghj\Del
Enter number of a: 2
Enter number of b: 4
After swapping, value of a 4.000000
After swapping, value of b 2.000000
```