$$(255)_{10} = (11111111)_{2} = (377)_{8} = (FF)_{16}$$

• 
$$255 = 2^{\circ} + 2^{1} + 2^{2} + 2^{3} + 2^{4} + 2^{5} + 2^{6} + 2^{7} = >(11111111)_{2}$$

$$\begin{array}{c|c}
 & 255 | 8 \\
 & -7 | 31 | 8 \\
 & 7 | 7 | 3
\end{array}$$

$$\begin{array}{c|c}
 & -255 | 16 \\
 & -7 | 31 | 8 \\
 & -7 | 31 | 8
\end{array}$$

$$(31)_{1.} = (11111)_{2} = (37)_{8} = (1F)_{16}$$

• 
$$31 = 2^{\circ} + 2^{1} + 2^{2} + 2^{3} + 2^{4} = (11111)_{2}$$

$$\begin{array}{c|c}
31 & 8 \\
24 & 3 \\
\hline
7 & 15, F
\end{array}$$

Vednesday Tri

# ادامه جواب سوال ۱

$$(1100100)_{2} = (100)_{10}$$

$$(215)_{8} = (141)_{10}$$

$$(215)_{8} = (141)_{10}$$

$$(18A2)_{16} = (7074)_{10}$$

$$(10001110)_{2} = (216)_{8} = (8E)_{16}$$

$$10001110 = 21 = 6$$

$$2^{3} = 8$$

$$2^{4} = 16$$

$$(714)_{8} = (1010100)_{2}$$

$$714 = 8 = 2$$

$$111 = 0.01 = 100$$

$$(ABC)_{16} = (1010101100)_{2}$$

$$ABC = (1010101100)_{2}$$

```
c test1.c ×
home > amin > Desktop > coding >   test1.c >   main()
          #include <stdio.h>
    1
    2
          int main(){
    3
   4
    5
                int input;
   6
                float tmp;
                printf("Enter Number: ");
   7
                scanf("%d", &input);
   8
                tmp = input / 8.0;
   9
                printf("%.4f\n", tmp);
  10
                          0.00amin@al:~/Desktop/coding$ gcc test1.c
  11
                          amin@ai:~/Desktop/coding$ ./a.out
          return 0:
                          Enter Number: 8
  12
                          1.00
  13
                          amin@ai:~/Desktop/coding$ gcc test1.c
                          amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: 10
                          1.25
                          amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: 11
                          1.38
                           amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: 0
                          0.00
                           amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: -1
                           -0.12
                           amin@ai:~/Desktop/coding$ gcc test1.c
                          amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: 11
                           amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: -1
                           -0.1250
                           amin@ai:~/Desktop/coding$ ./a.out
                          Enter Number: 100
                          12.5000
                           amin@ai:~/Desktop/codingS
```

```
c test1.c
          X
home > amin > Desktop > coding > € test1.c > 分 main(int, char * [])
      #include <stdio.h>
      #include <stdlib.h>
      int main(int argc, char *argv[]){
           float x = 0;
           float avr = 0;
           for (int i = 1; i < argc; i++){
               x += atoi(argv[i]); // Casting String To Integer (Google)
 10
               avr = x / (argc - 1);
 11
 12
           printf("Output: %.2f\n", avr);
 13
 14
 15
       return 0;
       }
```

```
home > amin > Desktop > coding > € test1.c > 分 main()
      #include <stdio.h>
      int main(){
  3
           float input;
           int int input;
           scanf("%f", &input);
          printf("Input : %f\n", input);
           int input = input;
          printf("Output: \n");
          printf("1- %.1f\n", input);
           printf("2- %.4f\n", input);
           printf("3- %.2f\n", input); // printf("%2.2f\n", input);
          printf("4- %d\n", int_input);
          printf("5- %e\n", input);
      return 0;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
amin@ai:~/Desktop/coding$ cd "/home/amin/Desktop/coding/" && gcc test1.c -o test1 && "/home/amin/Desktop/coding/"test1
234.4561
Input: 234.456100
Output:
1- 234.5
2- 234.4561
3- 234.46
4- 234
5- 2.344561e+02
amin@ai:~/Desktop/coding$ [
```

```
c test1.c
         ×
home > amin > Desktop > coding > € test1.c > 份 main()
      #include <stdio.h>
      int main(){
           int i = 32;
          char c = 'd';
           int sum = c - i:
           printf("Value of sum : %d\n", sum );
           printf("Value of sum : %c\n", sum );
 10
      return 0;
 11
 12
PROBLEMS
          OUTPUT DEBUG CONSOLE TERMINAL
cd "/home/amin/Desktop/coding/" && gcc test1.c -o
amin@ai:~$ cd "/home/amin/Desktop/coding/" && gcc
Value of sum: 68
Value of sum : D
amin@ai:~/Desktop/coding$
```

(In section of the s