

# Computer Programming I (C Programming Language)

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## Lecture: Formatted Output

Source code	Output
<pre> /* Formatted Output*/  #include &lt;stdio.h&gt; int main(void) {     int i,len,y,m=1234;     float f;     char s[20]= "CSE IIUC";     char s1[]="CSE IIUC 2017";     char ch = 'A';     freopen("printf1.txt","w",stdout);     i = 40;     f=123.9453600;     printf("\t\t\t\t\"Formatted Output\" \n");     printf("\'OK'\n");     printf("1#\n");printf("%d\n", i);     printf("2#\n");printf("%5d\n", i);     printf("3#\n");printf("%-5d\n",i);     printf("4#\n");printf("%06d\n", i);     printf("5#\n");printf("%.6d\n", i);      printf("6#\n");printf("%g\n",f);     printf("7#\n");printf("%g\n",f);     printf("8#\n");printf("%.3e\n",f);     printf("9#\n");printf("%g\n",f);     printf("10#\n");printf("%.4f\n",f);     printf("11#\n");printf("%.4g\n",f);     printf("12#\n");printf("%.24f\n",f);     printf("13#\n");printf("%.12.4f\n",f);     printf("14#\n");printf("%*.*f\n",12,3,f);     printf("15#\n");printf("%-12.4f\n",f);     printf("16#\n");printf("%012.4f\n",f); </pre>	<pre> Formatted Output" 'OK' 1# 40 2#     40 3# 40 4# 000040 5# 000040 6# 123.945 7# 123.945 8# 1.239e+002 9# 123.945 10# 123.9454 11# 123.9 12# 123.9454 13#     123.9454 14#     123.945 15# 123.9454 </pre>

<pre> printf("17#\n");printf("%x\n",12); printf("18#\n");printf("Address:%x\n",&amp;len); printf("19#\n");printf("Address:%p\n",&amp;len);  printf("20#\n");printf("Structured Programming:%n",&amp;len);// for correct result use https://ideone.com/ printf("%d\n\n",len); printf("21#\n");len=printf("CSE IIUC:"); printf("%d\n",len); printf("22#\n");printf("%d\n",printf("IIUC CSE 1202:"));  printf("23#\n"); printf("%s\n",s1,&amp;y); // for correct result use https://ideone.com/ printf(":%d",y);  printf("\n\n*****\n\n"); printf("24#\n");printf("%s\n",s1); printf("25#\n");printf(s1); printf("\n26#\n");printf("%17s\n",s1); printf("27#\n");printf("%017s\n",s1); printf("28#\n");printf("%10s\n",s1); printf("29#\n");printf("%-17s\n",s1); printf("30#\n");printf("%17.3s\n",s1); printf("31#\n");printf("%.3s\n",s1); printf("32#\n");printf("%s\n",s1+9); printf("33#\n");printf("%. *s\n",3,"abcdef"); printf("34#\n");printf("%*d\n",3,20); printf("\n\n-----\n\n"); printf("35#\n");printf("%5c\n",ch); printf("36#\n");printf("%+d\n",678); printf("37#\n");printf("%+06d\n",678); printf("38#\n");printf("%#o\n",m); printf("39#\n");printf("%#x\n",m); printf("40#\n");printf("%#X\n",m); printf("41#\n");printf("%#g\n",1234.0);// must be decimal value printf("42#\n");printf("%#g\n",1234.789);// fixed 2 digits after decimal point return 0; } </pre>	<pre> 16# 0000123.9454 17# c 18# Address:22ff0c 19# Address:0022FF0C 20# Structured Programming:23  21# CSE IIUC:9 22# IIUC CSE 1202:14 23# CSE IIUC 2017:13  *****  24# CSE IIUC 2017 25# CSE IIUC 2017 26# CSE IIUC 2017 27# 0000CSE IIUC 2017 28# CSE IIUC 2017 29# CSE IIUC 2017 30# CSE  31# CSE 32# 2017 33# abc 34# 20 </pre>
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35#

A

36#

+678

37#

+00678

38#

02322

39#

0x4d2

40#

0X4D2

41#

1234.00

42#

1234.79