

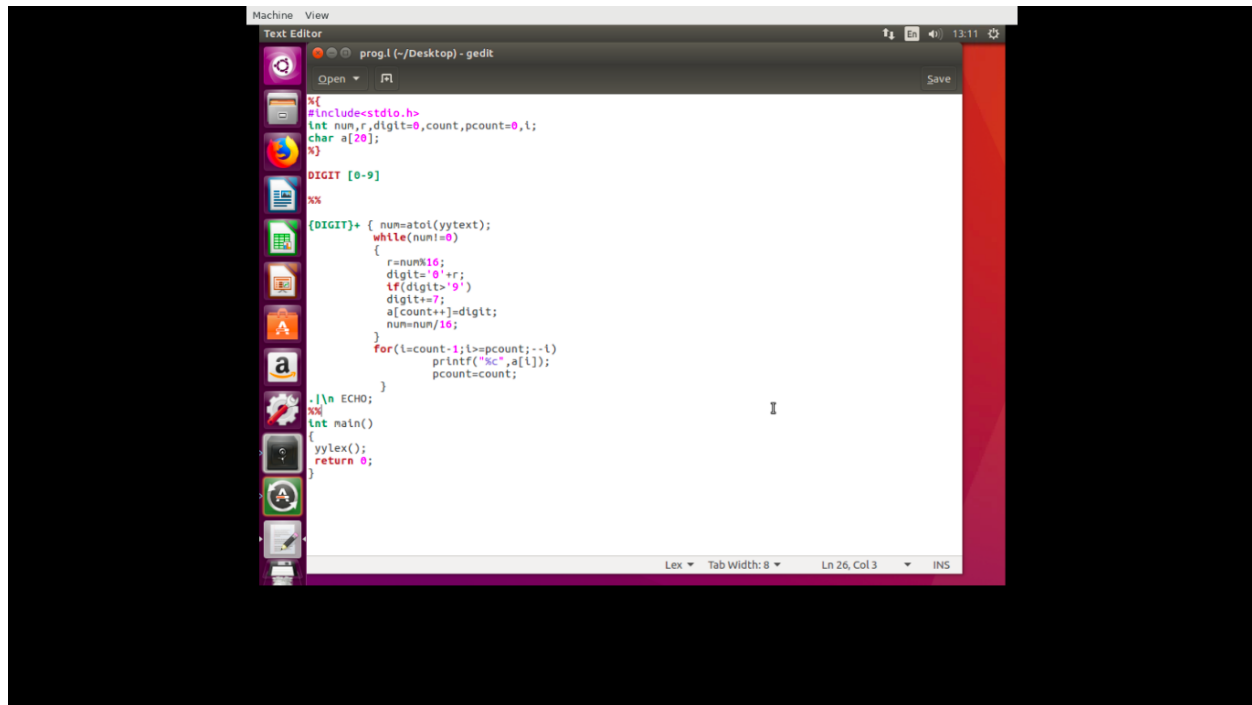
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Batch: C3

Conversion of decimal to hexadecimal number in a file

LEX PROGRAM



The screenshot shows a text editor window titled "Text Editor" with the file "prog.l (-/Desktop) - gedit". The code is a Lex program designed to convert decimal numbers to hexadecimal. It includes a header section with `#include <stdio.h>`, variable declarations for `num`, `r`, `diglt`, `count`, `pcount`, and `a`. A rule `{DIGIT}+` is defined to process the input string. The `main` function calls `yylex()` and prints the resulting hexadecimal string.

```
%{
#include<stdio.h>
int num,r,diglt=0,count,pcount=0,i;
char a[20];
}%

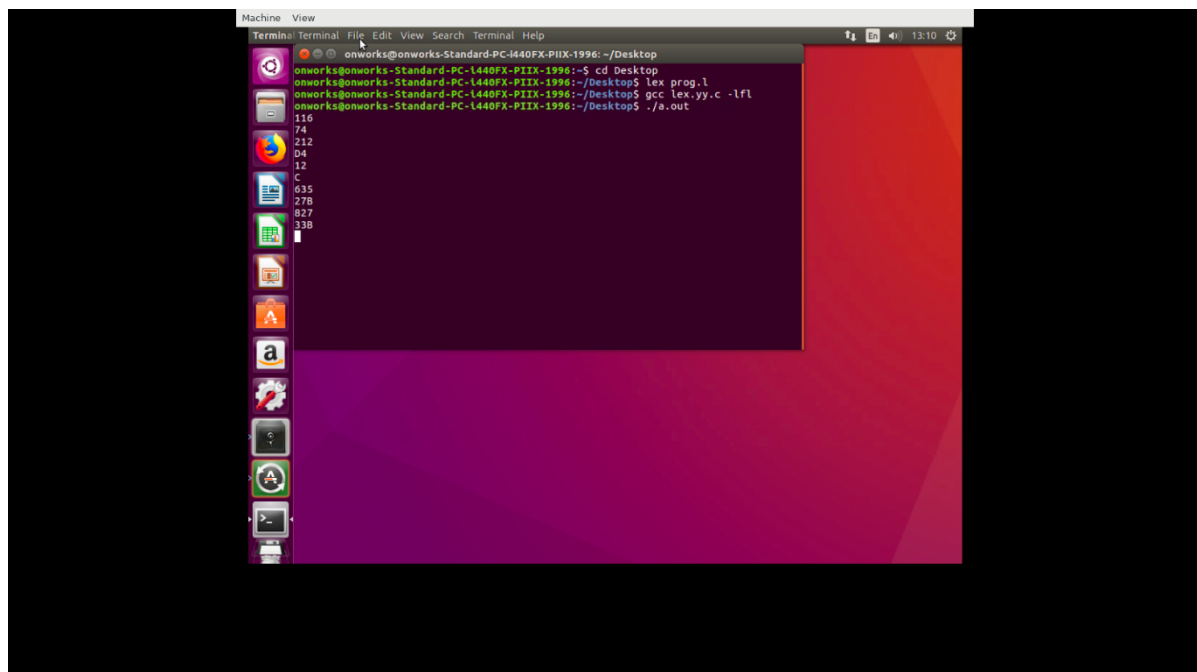
DIGIT [0-9]

%%

{DIGIT}+ { num=atoi(yytext);
while(num!=0)
{
r=num%10;
diglt='0'+r;
if(diglt>'9')
diglt+=10;
a[count++]=diglt;
num=num/10;
}
for(i=count-1;i>=pcount;--i)
printf("%c",a[i]);
pcount=count;
}

.\n ECHO;
%%
int main()
{
yylex();
return 0;
}
```

LEX PROGRAM OUTPUT



The screenshot shows a terminal window with the following commands and output:

```
onworks@onworks-Standard-PC-I440FX-PIIX-1996: ~/Desktop
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~$ cd Desktop
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~/Desktop$ lex prog.l
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~/Desktop$ gcc lex.yy.c -lfl
onworks@onworks-Standard-PC-I440FX-PIIX-1996:~/Desktop$ ./a.out
116
74
212
D4
12
C
635
278
827
338
```

LEX PROGRAM FILES

