Convert Hexadecimal to Decimal

```
#include<stdio.h>
#include <math.h>
#include <string.h>
int main()
{
  char hex[17];
  long long decimal, place;
  int i = 0, val, len;
  decimal = 0;
  place = 1;
  /* Input hexadecimal number from user */
  printf("Enter any hexadecimal number: ");
  gets(hex);
  /* Find the length of total number of hex digit */
  len = strlen(hex);
  len--;
  /*
  * Iterate over each hex digit
  */
  for(i=0; hex[i]!='\0'; i++)
  {
    /* Find the decimal representation of hex[i] */
    if(hex[i] >= '0' \&\& hex[i] <= '9')
    {
```

```
val = hex[i] - 48;
    }
    else if(hex[i]>='a' && hex[i]<='f')
    {
      val = hex[i] - 97 + 10;
    }
    else if(hex[i]>='A' && hex[i]<='F')
    {
      val = hex[i] - 65 + 10;
    }
    decimal += val * pow(16, len);
    len--;
  }
  printf("Hexadecimal number = %s\n", hex);
  printf("Decimal number = %lld", decimal);
  return 0;
}
```

