<u>decToHexStr</u>

Write a C function decTohexStr() that takes in two parameters on a string **str** and a decimal integer **num**, converts **num** into its equivalent hexadecimal number (i.e. with base value of 16), stores it into the string **str** and returns **str** to the calling function using call be reference.

A sample program template is given below:

```
#include <stdio.h>
#include <string.h>
void decTohexStr(char *str, int num);
int main()
   int num, i;
   char str[20];
   printf("Enter a decimal number: \n");
   scanf("%d", &num);
   decTohexStr(str,num);
   printf("decTohexStr(): %s\n",str);
   return 0;
}
void decTohexStr(char *str, int num)
{
   /* Write your code here */
}
```

Some test input and output sessions are given below:

```
(1) Test Case 1
   Enter a decimal number:
   decTohexStr(): 5
(2) Test Case 2
   Enter a decimal number:
                                 *p2 is a char and with
                                 number assigned to it,
   decTohexStr(): 1E
                                  follow ascii
(3) Test Case 3
   Enter a decimal number:
                                  char *p2 = 48 = 5'0'
                                  char*p2 = 55 => 'A'
   decTohexStr(): 64
(4) Test Case 4
   Enter a decimal number:
                                    swap first and
                                    last term
   decTohexStr(): 12C
```

```
void decTohexStr(char *str, int num)
 int j,i,len;
 char *p2;
 char temp;
 p2=str;
 while (num>0) {
   j=num%16;
   if (j<10)
     *p2=j+48;
   else
     *p2=j+55;
   num=num/16;
   p2++;
  p2='\0':
 len=strlen(str);
 for (i=0; i<len/2; i++) {
   temp=*(str+i);
   *(str+i)=*(str+len-i-1);
    *(str+len-i-1)=temp;
```