```
Bit stuffing and destuffing
#include<stdio.h>
#include<stdlib.h>
#define MAXSIZE 100
int main()
{
 char *p,*q;
 char temp;
 char in[MAXSIZE];
 char stuff[MAXSIZE];
 char destuff[MAXSIZE];
 int count=0;
 printf("enter the input character string (0's & 1's only):\n");
 scanf("%s",in);
 p=in;
 q=stuff;
 while(*p!='\0')
 {
  if(*p=='0')
  {
   *q=*p;
```

```
q++;
  p++;
 }
 else
 {
  while(*p=='1' && count!=5)
  {
   count++;
   *q=*p;
   q++;
   p++;
  }
  if(count==5)
  {
   *q='0';
   q++;
  }
  count=0;
 }
}
*q='\0';
printf("\nthe stuffed character string is");
printf("\n%s",stuff);
p=stuff;
```

```
q=destuff;
while(*p!='\0')
{
 if(*p=='0')
{
  *q=*p;
  q++;
 p++;
 else
 {
  while(*p=='1' && count!=5)
  {
   count++;
   *q=*p;
   q++;
   p++;
  }
  if(count==5)
  {
  p++;
  count=0;
}
}
*q='\0';
```