## CAESAR CIPHER NETWORK

```
include <stdio.h>
#include <ctype.h>
#define MAXSIZE 1024
void encrypt(char*);
void decrypt(char*);
int menu();
int main(void) {
  char c, choice[2], s[MAXSIZE];
  while (1) {
     menu();
     gets(choice);
     if ((choice[0] == 'e') || (choice[0] == 'E')) {
       puts("Input text to encrypt->");
       gets(s);
       encrypt(s);
     } else if ((choice[0] == 'd') || (choice[0] == 'D')) {
       puts("Input text to decrypt->");
       gets(s);
       decrypt(s);
     } else
       break;
  }
  return 0;
}
void encrypt(char*str) {
  int n = 0;
```

```
char *p = str, q[MAXSIZE];
  while (*p) {
     if (islower(*p)) {
        if ((*p \ge a') & (*p < x'))
           q[n] = toupper(*p + (char) 3);
        else if (*p == 'x')
           q[n] = 'A';
        else if (*p == 'y')
           q[n] = 'B';
        else
           q[n] = 'C';
     } else {
        q[n] = *p;
     }
     n++;
     p++;
  }
  q[n++] = '\0';
  puts(q);
}
void decrypt(char*str) {
  int n = 0;
  char *p = str, q[MAXSIZE];
  while (*p) {
     if (isupper(*p)) {
        if ((*p \ge 'D') \&\& (*p \le 'Z'))
           q[n] = tolower(*p - (char) 3);
        else if (*p == 'A')
           q[n] = 'x';
        else if (*p == 'B')
           q[n] = 'y';
        else
           q[n] = 'z';
     } else {
        q[n] = *p;
     }
     n++;
     p++;
  q[n++] = '\0';
  puts(q);
```

```
int menu() {
   puts("To encrypt, input e or E\n");
   puts("To decrypt, input d or D\n");
   puts("To exit, input any other letter\n");
   puts("Your choice:->\n");
   return 0;
}
```

