```
Hns-5
            # include (stdio.h)
            # include (stalib.h)
             # include ( string.h)
             # define SIZE30
             Void tolower Case (char Plain [], int Ps)
                 int i;
                 for (1=0; i < Ps; i++) {
                   if (Plain[i] > 64 & & Plain[i] (91)
                     Plain[i]+=32; ?
            int removespaces (char * plain, int Ps)
               { int i, (ount = 0;
                  for (i=0; i < Ps; i++)
                    if (Plain[i] != '')
                       Plain[count +t] = Plan[i];
                Plain [count]='lo';
                     ¿ ; tenno (ount ; }
           void generate key Table (char key [], int Ks,
             char keyT[S][S]) $
                ind i, j, k, flag = 0, *diety;
               dicty=(int*) calloc (26, Size of (int));
                 for (i=0; i(ks; i+t) {
```

```
if ( Key[i]! = 'j')
     dicty[Key[i] -37] =2; }
dicty['j'-97]=1:
   1=0; 1=0;
for (K=0; K< Ks; K++) {
     if (dicty[Kay[K] -97] ==2) {
      dicty[key[K] -97] ==2){
        dicty [key[k] - 97] = 1;
    KeyT[i][j] = KeY[K];
   if ( i = = 5) $
       i++; j=0; } } }
  fox (K=0; K(26; K++) {
     if (dicty[K] ==0){
         KeyT[i][j] = (char) (K+97);
       if (1==5) {
          i++; j=0; 3333
```

```
Void Search (char KeyT[5][5], char a, charb, indarry
   int i, i;
     if (a == 'i')
     else if (b== j');
    for (i=0;i<5;i+t) {
        for (j=0; j(5; j++) {
           if (KeyT[i][j] == a) {
             a $8 [0] = i;
              Q 8 Y [1] = j;
            I else if (KeyT[i][j] == b) {
         333 int mods (int a)
          int prepare (char str (J, int ptrs)
             3 it ( pt&s 1.2%=0) {
                8+8[p+88++]='Z';
                8 +8 [ P+85] = 1/0; }
                retun P+68; ?
```

void encrypt by Playfair Cipher (char strc), char kry()

char Ps. Ks. KeyT[S][S]; Ks = Strlen(Key) Ks = semove space (key , Ks): do lower case (key, ks); Ps = strlen (str): to lower (ase (str, PS); Ps = remove spaces (strips); encrypt (str, KeyT, Ps); } int main () { char stresize], Keyesize]; stropy (key, "monarchy"); Print ("key dext: 1.51n", key); stropy (sty, "instrments"); Privat ("Plain text: "/18 ln", stx); encrypt ByPlay fair(iphex (6+8, Key); Printf ("Cipher Dext: 1.8 m" str)

return 0;

```
Key text: key
Plain text: go with the flow
Cipher text: hnumzozoydmixu
Process exited after 0.034 seconds with return value 0
```

Press any key to continue . . .