C example



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Sunday, 7 April 2013

Playfair Cipher in C

Hello friends, I am very happy to write my first post about implementation of Playfair cipher algorithm in c.

For any query regarding c/c++ feel free to contact me on khimanichirag@gmail.com. I try my best to solve it.

```
#include<stdio.h>
#include<conio.h>
#include<string.h>
#include<graphics.h>
void line(int a)
  inti;
   printf("\n");
   for(i=0;i<a;i++)
     printf("*");
   printf("\n");
char s[30];
void main()
  char c[27],k[30],temp[40],matrix[5][5],first,second;
  int i,index,j,t,t1,p,p1,gd,gm;
  initgraph(&gm,&gd, "c:\tc\\bgi");
  clrscr();
                  -ABCD in c[]-
  setcolor(2);
  outtexby(400,460,"Prepared By:Khimani Chirag");
  outtexbs/(150,10,"Welcome To Playfair Cipher Encryption");
  for(i=97;i<=122;i++)
     c[i-97]=i;
   line(50);
   printf("enter the plain text: ");
    gets(s);
   printf("\nenter key for playfair cipher: ");
   line(50):
                    -put c[]<--* when key-
   for(i=0;k[i]!='\0';i++)
     index=kli1-97:
      if(c[index]=="*"
        k[i]="*":
      else
        c[index]="*"
                     ---put key[] in variable
  i=0;
  j=0;
    while(k[i] !=\0')
    if(k[i]!='*')
        temp[i]=k[i];
  }
                     -put c[] in temp variable-
  while(c[i] !='\0')
       if(c[i]!="*" && c[i]!="j")
       temp[j]=c[i];
  printf("\nyour matrix is:\n")
                     -matrix printing-
  for(i=0;i<5;i++)
```

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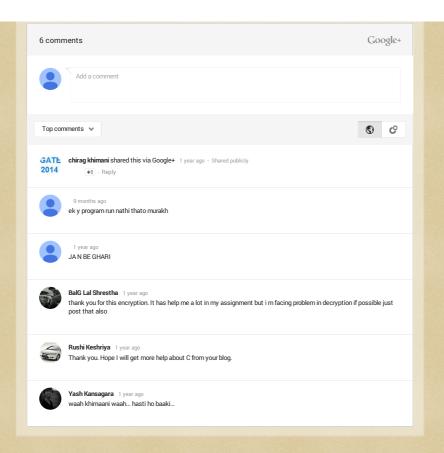
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C program



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```
printf("* ");
        for(j=0;j<5;j++)
         printf("%c ",temp[t]);
         matrix[i][j]=temp[t];
          if(i!=4)
            printf("\n");
     line(20);
     printf("\nyour cipher text is: ");
      if(strlen(s)%2!=0)
        while(s[i]!='\0')
       {
i++;
        s[i+1]='\0';
      for(index=0;index<strlen(s);index+=2)
         first=s[index];
         second=s[index+1];
          for(j=0;j<5;j++)
             if(matrix[i][j]==first)
         t=i;
tt=j;
            if(matrix[i][j]==second)
              p=i;
p1=j;
        if(p==t)
           if(p1==4)
           p1=-1;
          if(t1==4)
           t1=-1;
          printf("%c%c",matrix[t][t1+1],matrix[p][p1+1]);
        else if(p1==t1)
            p=-1;
           if(t==4)
          {
t=-1;
          printf("%c%c",matrix[t+1][t1],matrix[p+1][p1]);
        else
{
          printf("%c%c",matrix[t][p1],matrix[p][t1 ]);
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```



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