NAME:- KULDEEP SINGH RANA
FATHERSNAME:- MR. CHARAN SINGH RANA   ①
COURSE:- BCA
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PAPER NAME:- INFORMATION SECURITY LAB
PAPER CODE:- PBC-601
TYPE OF PAPER: - REGULAR.

Q4
```c
#include <stdio.h>
#include <ctype.h>
#include <string.h>
int main()

char plantxt [100], otp [100];
printf (" enter plan txt \n");
fflush (stdin);
 fgets (plantxt, sizeof (plantxt), stdin);
printf ("enter otp txt of length x-d\n," strlen (plantxt));
fflush (stdin)
 fgets (otp, sizeof(otp), stdin);

//encryption.
for (int i = 0; i< strlen (plantxt); i++)
{
 if (isupper (plantxt [i]))
 {
 otp[i] = toupper (otp[i]);
 if (plantxt [i] + (otp[i] - 'A') >= 'z' {plantxt[i]=plantxt[i]+
                                   (otp[i] - A)9-26;}.
```

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```c
if (plantxt[i] + (otp[i]-'A') <= 'Z') {plantxt[i] = plantxt[i]+(otp[i]
                                              -'A');}
}
else if (slower(plantxt[i]))
{
    otp[i] = tolower(otp[i]);
    if (plantxt + (otp[i]-'a') >'z' ) { plantxt[i] = plantxt[i]+
                                        (otp[i] -'a') -26; }
    if (plantext[i]+ (otp[i]-'a')<= 'z') { plantxt[i] = plantxt[i]+
                                           (otp[i]-'a'); }
}
else ( plantxt[i] = plantxt[i]; }
}
printf ("cypher text \t%s\n",

// decryption
for (int i =0; i< strlen(plantxt); i++)
{
    if (isupper(plantxt[i])) 69:{
    otp[i] = toupper(otp[i]),
    if (plantxt[i]-(otp[i]-'A') <'A'){plantxt[i]=plantxt[i]-(otp[i]-'A')+26;}
    if ( plantxt[i]-(otp[i]-'A' )>='A'){ plantxt[i]=plantxt[i]-(otp[i]-'A');}

    else if (slower (plantxt[i]))
    {otp[i] = tolower (otp[i]);
    if ( plantxt[i] - (otp[i]-'a')<'a') (plantxt[i] =plantxt[i]-
                                         (otp[i]-'a')+26); }
    if (plantxt[i] -(otp[i]-'a') >= 'a'){ plantxt[i] = plantxt[i]
                                         - (otp[i]-'a'); }
    else { plantxt[i] = plantxt[i]; }
} printf ("uncypher txt \t%s\n", plantxt);
    return 0;
}
```

Kuldeep
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