Nupur, BSc IT VI, 1022746(36), Information Security.

Q2 OTP method.

```
#include <stdio.h>
#include<string.h>
#include <ctype.h>
main()
{
int i,j,len1,len2,numStr[100],
numkey[100],numcipher[100];
char str[100],key[100],cipher[100];
printf("Enter a String text to
encrypt\n");
gets(str);
for(i=0,j=0;i<strlen(str);i++)
{
if(str[i]!=' ')
{
str[j]=toupper(str[i]);
j++;
}
}
str[j]='\0';
for(i=0;i<strlen(str);i++)
{
numStr[i]=str[i]-'A';
}
printf("Enter key String of random
text\n");
gets(key);
for(i=0,j=0;i<strlen(key);
i++)
{
if(key[i]!=' ')
{
key[j]=toupper(key[i]);
j++;
}}
key[j]='\0';
for(i=0;i<strlen(key);i++)
{
numkey[i]=key[i]-'A';
}
for(i=0;i<strlen(str);i++)
{
numcipher[i]=numStr[i]+
numkey[i];
}
for(i=0;i<strlen(str);i++)
{
if(numcipher[i]>25)
{
numcipher[i]=numcipher[i]-26;
}}
printf("one TimePad Ciphertext is\n");
for(i=0;i<strlen(str);i++)
{
Printf("%c",(numcipher[i]+'A'));
}
Printf("\n");
}
```

```
Enter a string text to encrypt
one time pad
Enter key string of random text
perfect
One Time Pad Cipher text is
DRVYMOXP∞Ü

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Process exited after 40.42 seconds with return value 0
Press any key to continue . . .
```