

Name Amit Singh Rana

Roll-no- 1022722(12)

Course- RSCIT (6th)

Q.2-Soln) #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[i] = '\0';

for (i=0; i<strlen(str); i++)

{

num[i] = str[i] - 'A';

}

printf("Enter key string of random text\n");

gets(key);

Amit

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```
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;
    }
}
```

Amit

Name - Amit Singh Rana  
Roll No - 1022722(14)  
Course - BSC IT (6<sup>th</sup>)

```
printf(" One Time Pad is \n");  
for (i=0; i< strlen(str); i++)  
{  
    printf("%c", (numCipher[i] + 'A'));  
}  
printf("\n");  
}  
}
```

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Enter a string text to encrypt

Press any key to continue . . .

Enter key string of random text

Press any key to continue . . .

Time Pad is

ATDIS

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Process exited after 7.241 seconds with return value 0

Press any key to continue . . .