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Sub- Info & security   course - BSCIT (6th).

Ans-2

```c
#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");
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++; }}
```

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```c
key[j] = '\0';
    for (i = 0; i < strlen(str); i++)    // key
    {
        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 Time pad cipher text 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
DRVYMOX⌐ó÷

Process exited after 36.45 seconds with return value 0
Press any key to continue . . .