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Roll No- 1022721

BSC IT - 6 sem

Aman

Ans 2→
```c
# include <stdio.h>
# include <string.h>
# include <ctype.h>
int 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';
```

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```
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] = num cipher [i] - 26;
        }
    }
Printf ("one time Pad Cipher text is \n");
    for (i=0; i< strlen (str); i++)
        {
            Printf ("%c", (numcipher [i] + 'A'));
        }
    Printf ("\n");
}
}
```

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Output

Enter a string that to encrypt
one time pad

Enter key string of random text
Perfect

one time pad Cypher text is
  DRVYMOXLO