

Name Raj Ichan Bagga

Course B.Sc (IT)

Roll no 43

University 102753

Roll no

sub Information Security

2

Raj

Ques 2

```
→ #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 encryption\n");
    gets(str);
    for (i=0; j=0; i<strlen(str); i++)
    {
        if (str[i] != ' ')
        {
            str[j] = '\0';
            for (i=0; i<strlen(str); i++)
            {
                numstr[i] = str[i] - 'A';
            }
            printf("Enter the key string of random text\n");
            gets(key);
            for (i=0; j=0; i<strlen(key); i++)
            {
```

```
if (key[i] != "")
```

```
{  
    key[i] = toupper(key[i]);
```

```
    i++;
```

```
}
```

```
}
```

```
key[j] = '\\0';
```

```
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");
```

```
}
```

```
}.  
}
```