

NAME - ADITYA RAWAT

ROLL NO - 1022714

Answer 2 \Rightarrow To implement one time pad

```
#include <stdio.h>
```

```
#include <conio.h>
```

```
#include <string.h>
```

```
#include <ctype.h>
```

```
int main()
```

```
{
```

```
    int i, j, len1, len2, numstr[100], numkey[100];
```

```
    numcipher[100];
```

```
    char str[1000], key[100], cipher[100];
```

```
    printf("Enter the message to be encrypt");
```

```
    gets(str);
```

```
    for (i=0, j=0; k<strlen(str); i++)
```

```
    {
```

```
        if (str[i] != ' ')
```

```
        {
```

```
            str[j] = toupper(str[i]);
```

```
            j++;
```

```
        }
```

```
}
```

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```
str[j] = '\0';  
for(i=0; i<strlen(str); i++)  
{  
    numstr[i] = str[i] - 'A';  
}  
printf("enter key string");  
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)
```

Sign Aditya

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numcipher[i] = numcipher[i] - 26;

3

3

printf ("One time pad cipher text is\n");

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

{

printf ("%c", (numcipher[i] + 'A'));

}

printf ("\n");

getch();

return 0;

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Sign- Arjun