

//Simple C program to encrypt and decrypt a string

**Software: Dev cpp**

**C language**

```
#include <stdio.h>

int main()
{
    int i, x;

    char str[100];

    printf("\nPlease enter a string:\t");

    gets(str);

    printf("\nPlease choose following options:\n");

    printf("1 = Encrypt the string.\n");

    printf("2 = Decrypt the string.\n");

    scanf("%d", &x);

    //using switch case statements

    switch(x)
    {

    case 1:

        for(i = 0; (i < 100 && str[i] != '\0'); i++)

            str[i] = str[i] + 3; //the key for encryption is 3 that is added to ASCII value
```

```

printf("\nEncrypted string: %s\n", str);

break;

case 2:

for(i = 0; (i < 100 && str[i] != '\0'); i++)

str[i] = str[i] - 3; //the key for encryption is 3 that is subtracted to ASCII value

printf("\nDecrypted string: %s\n", str);

break;

default:

printf("\nError\n");

}

return 0;

}

```

```

Please enter a string:  india

Please choose following options:
1 = Encrypt the string.
2 = Decrypt the string.
1

Encrypted string: lqgld

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Process exited after 10.84 seconds with return value 0
Press any key to continue . . .

```

Please enter a string: lqgld

Please choose following options:

1 = Encrypt the string.

2 = Decrypt the string.

2

Decrypted string: india

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Process exited after 7.68 seconds with return value 0

Press any key to continue . . . ■