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Course → BCA (VI)

Practical → Information Security

Practical code → PBC 601

## Q5 :- Caesar Cipher encryption & decryption.

⇒ Encryption :-

#include <stdio.h>

#include <string.h>

int main()

{

char ch, message[ ] = "Attack from North";

~~int~~ key = 4;

for (int i = 0; message[i] != 'l0'; ++i)

{

ch = message[i];

if (ch >= 'a' && ch <= 'z')

{

ch = ch + key;

if (ch > 'z')

{

ch = ch - 'z' + 'a' - 1;

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message[i] = ch;

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else if (ch >= 'A' & & ch <= 'Z')

{

ch = ch + key;

if (ch > 'Z')

{

ch = ch - 'Z' + 'A' - 1;

}

message[i] = ch;

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printf ("Encrypted message: %s",  
message);

return 0;

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## Decryption

```

#include < stdio.h >
#include < string.h >

int main()
{
    char message [100], ch;
    int i, key;
    printf ("enter a message to decrypt");
    gets (message);
    printf ("enter key");
    scanf ("%d", &key);
    for (i = 0; message [i] != '\0'; ++i)
    {
        ch = message [i];
        if (ch == 'a' && ch <= 'z')
        {
            ch = ch - key;
            if (ch < 'a')
                ch = ch + 'z' - 'a' + 1;
        }
    }
}

```

message[i] = ch;

key

else if (ch) = 'A' && ch <= 'Z')

{  
ch = ch - key;

if (ch < 'A')

{  
ch = ch + 'Z' - 'A' + 1;

message[i] = ch;

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printf("Decrypted message:\n", message);

return 0;

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