Screenshot program shift cipher

Muhammad Nabil Fikri S P

140810200046

Source Code:

```
#include <iostream>
#include <windows.h>
#include <algorithm>
#include <string>
using namespace std;
string encrypt(string text, int key)
  string encrypted;
  for (int i = 0; i < text.length(); ++i)</pre>
    if (text[i] >= 'a' && text[i] <= 'z')
      encrypted += char(int(text[i] - 'a' + key) % 26 + 'a');
    else if (text[i] >= 'A' && text[i] <= 'Z')
      encrypted += char(int(text[i] - 'A' + key) % 26 + 'A');
    else
      encrypted += text[i];
  return encrypted;
string decrypt(string text, int key)
  string decrypted;
```

```
for (int i = 0; i < text.length(); ++i)
    if (text[i] >= 'a' && text[i] <= 'z')
      decrypted += char(int(text[i] - 'a' - key) % 26 + 'a');
    else if (text[i] >= 'A' && text[i] <= 'Z')
      decrypted += char(int(text[i] - 'A' - key) % 26 + 'A');
    else
      decrypted += text[i];
  return decrypted;
int main()
  char choice;
  int key1;
  int key2;
  string text;
  while (true)
    cout << "1. Encrypt" << endl;</pre>
    cout << "2. Decrypt" << endl;</pre>
    cout << "3. Exit" << endl;</pre>
    cout << "Please chose action (1/2/3)" << endl;</pre>
    cin >> choice;
    cin.ignore();
    if (choice == '3')
      cout << "BYE BYE";</pre>
      break;
    else if (choice == '2')
      cout << "Input text: " << endl;</pre>
      getline(cin, text);
      cout << "Input key: ";</pre>
      cin >> key1;
      cout << "Plain text: " << decrypt(text, key1) << endl</pre>
```

Running program:

```
1. Encrypt
2. Decrypt
3. Exit
Please chose action (1/2/3)
1
Input text:
nabil
Input key: 3
Cipher text: qdelo
1. Encrypt
2. Decrypt
3. Exit
Please chose action (1/2/3)
2
Input text:
qdelo
Input key: 3
Plain text: nabil
1. Encrypt
2. Decrypt
3. Exit
Please chose action (1/2/3)
8
Please chose action (1/2/3)
3
BYE BYE
```