VERNAM CIPHER

```
#include<bits/stdc++.h>
using namespace std;
int main(){
  int t,n,i,j,k,sum=0;
  string m;
  cout<<"Enter the message"<<'\n';
  cin>>m;
  string key;
  cout<<"Enter the key"<<'\n';
  cin>>key;
  int mod = key.size();
  j=0;
  for(i=key.size();i<m.size();i++){</pre>
     key+=key[j%mod];
     j++;
  }
  string ans="";
  for(i=0;i \le m.size();i++){
     ans += (key[i]-'A'+m[i]-'A')%26+'A';
  }
  cout<<"Encrypted message: "<<ans<<'\n';
  return 0;
using namespace std;
int main(){
  int i,j,k,n;
  vector<vector<char> > a(26,vector<char>(26));
  k=0;
  n=26;
  for(i=0;i< n;i++){
     k=i;
     for(j=0;j< n;j++){
       a[i][j]='A'+k;
       k++;
       if(k==26) k=0;
     }
  cout<<"Enter the encrypted message\n";
  string s;
  cin>>s;
```

```
cout<<"Enter the key\n";
     string key;
     cin>>key;
     k=0;
     for(i=key.size();i<s.size();i++){</pre>
           key+=key[k];
          k++;
     }
     string decrypt;
     for(i=0;i \le s.size();i++)
           for(j=0;j< n;j++){
                if(a[j][key[i]-'A']==s[i]){
                      decrypt += 'A'+j;
                      break;
                }
           }
     cout<<"Decrypted message: "<<decrypt<<'\n';
     return 0;
}
C\Users\Sreelatha\Documents\VERNAM.CIPHER DECRYPTION.cpp - [Executing
File Edit Search View Project Execute Tools AStyle Window Help
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  Project Classes Debug [1] VERNAM CIPHER.cpp CAESER CIPHER DECRYPTION.cpp X-OR.cpp CAESER CIPHER ENCRYPTION.cpp DEFFIE HELLMEN.cpp VERNAM CIPHER ENCRYPTION.cpp VERNAM CIPHER DECRYPTION.cpp VERNAM CIPHER DECRYPTION.cpp
                      if(k==26) k=0:
                                   cout<<"Enter the encrypted message\n";
                                                                                           ■ Select C:\Users\Sreelatha\Documents\VERNAM CIPHER DECRYPTION.exe
                                                                                                                                                                                                        cout<<"Enter the encrypte
string s;
cin>>s;
cout<<"Enter the key\n";
string key;
cin>>key;
                                                                                             nter the kev
                                  k=0;
for(i=key.size();i<s.size();i++){
    key+=key[k];
    k++;</pre>
                                 }
string decrypt;
for(i=0;i<s.size();i++){
    for(j=0;i<n;j++){
        if(a[j][key[i]-'A']==s[i]){
            decrypt += 'A'+j;
            break;
            t</pre>
                                                                                              ssage Retrieved is:
                                                                                                ess exited after 8.443 seconds with return value 0 s any key to continue . . . _
                                   cout<<"Decrypted message: "<<decrypt<<'\n';
  Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results 📳 Close
    Abort Compilation Compilation results...
 - Errors: 0
- Errors: 0
- Warnings: 0
| Shorten compiler paths - Output Filename: C:\Users\Sreelatha\Documents\VERNAM CIPHER DECRYPTION.exe
- Output Size: 1.07190723419189 M18
- Compilation Time: 1.01s
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