Stream cipher Practical

```
#include<iostream>
#include<string>
using namespace std;
#define MAX 100
int XOR(int a, int b)
{
       int value = 1;
       if(a==b)
       {
              value = 0;
       }
       return value;
}
void encryption()
{
       int text[MAX];
       int key[MAX];
       int len;
       cout<<"Enter the length of the text : ";</pre>
       cin>>len;
```

```
cout<<" Enter Plain text :";</pre>
for (int i=0; i<len; i++)
{
        cin>>text[i];
}
cout<<"\n Enter key values : ";</pre>
for (int i=0; i<len; i++)
{
        cin>>key[i];
}
for (int i=0; i<len; i++)
{
        text[i] = XOR(text[i], key[i]);
}
cout<<"\n Encrypted Message : ";</pre>
for (int i=0; i<len; i++)
{
        cout<<text[i]<<" ";
}
cout<<endl;
```

}

```
void decryption()
{
        int text[MAX];
        int key[MAX];
        int len;
        cout<<"\n\n Enter the length of the text : ";</pre>
        cin>>len;
        cout<<"\n Enter Cipher text : ";</pre>
        for (int i=0; i<len; i++)
        {
                cin>>text[i];
        }
        cout<<"\n Enter key values :";</pre>
        for (int i=0; i<len; i++)
        {
                cin>>key[i];
        }
        for (int i=0; i<len; i++)
        {
```

```
text[i] = XOR(text[i], key[i]);
       }
       cout<<"\nDecrypted Message : ";</pre>
       for (int i=0; i<len; i++)
       {
               cout<<text[i]<<" ";
       }
       cout<<endl;
}
int main()
{
       encryption();
       decryption();
       return 0;
}
```

Output SS: