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ROLL NO	22R21A05P6
CLASS AND YEAR	CSE-D 4th YEAR 1st SEM
WEEK NUMBER	WEEK 5

**PROBLEM STATEMENT:** Write a java program to implement the BlowFish algorithm logic.

### **PROGRAM:**

```
import java.io.*;
import java.security.Key;
import javax.crypto.Cipher;
import javax.crypto.CipherOutputStream;
import javax.crypto.KeyGenerator;
import java.util.Base64;
public class BlowFish {
  public static void main(String[] args) throws Exception {
    KeyGenerator keyGenerator = KeyGenerator.getInstance("Blowfish");
    keyGenerator.init(128);
    Key secretKey = keyGenerator.generateKey();
    Cipher cipherOut = Cipher.getInstance("Blowfish/CFB/NoPadding");
    cipherOut.init(Cipher.ENCRYPT MODE, secretKey);
    Base64.Encoder encoder = Base64.getEncoder();
    byte iv[] = cipherOut.getIV();
    if (iv != null) {
      System.out.println("Initialization Vector of the Cipher: " +
encoder.encodeToString(iv));
    FileInputStream fin = new
FileInputStream("C:\\Users\\ACER\\Documents\\CNSLab\\inputFile.txt");
    FileOutputStream fout = new
FileOutputStream("C:\\Users\\ACER\\Documents\\CNSLab\\outputFile.txt");
    CipherOutputStream cout = new CipherOutputStream(fout, cipherOut);
    int input;
    while ((input = fin.read()) != -1) {
      cout.write(input);
    fin.close();
    cout.close();
  }}
```

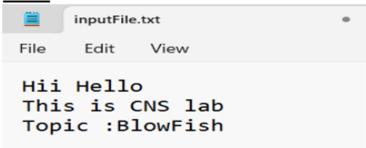
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## **INPUT:**



### **OUTPUT:**

C:\Users\ACER\Documents\CNS Lab>javac BlowFish.java

C:\Users\ACER\Documents\CNS Lab>java BlowFish
Initialization Vector of the Cipher: xcxRDtqZc6w=

