

Exp.No: I	Implement Symmetric Key Algorithms.
Date:	

Aim:

To implement Symmetric key algorithms using java code.

Algorithm:

Step 1: Create a class to create symmetric key.

Step 2: In the secret key function, Create a new instance of secure random class.

Step 3: Pass the String to key generator and initialize with 256 bits.

Step 4: After running the program, encoded symmetric key will be displayed.

Program:

```
import java.security.SecureRandom;
import javax.crypto.KeyGenerator;
import javax.crypto.SecretKey;
import javax.xml.bind.DatatypeConverter;

public class symmetric
{
    public static final String AES= "AES";

    public static SecretKey createAESKey()
        throws Exception
    {
        SecureRandom securerandom= new SecureRandom();
        KeyGenerator key-generator= KeyGenerator.getInstance(AES);
        key-generator.init(256, securerandom);
        SecretKey key = key-generator.generateKey();
        return key;
    }

    public static void main(String args[])
        throws Exception
    {
        SecretKey Symmetrickey= createAESKey();
        System.out.println("Output");
        System.out.print("The Symmetric Key is: "+
        DatatypeConverter.printHexBinary(Symmetrickey.getEncoded()));
    }
}
```

Lab Manual For Ciampas Security Guide To Network Security Fund

J Rink



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