Exp.No: 1	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 keygenerator= KeyGenerator.getInstance(AES);
       keygenerator.init(256, securerandom);
       SecretKey key = keygenerator.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

Paul Cretaro

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