SESSION: AN

178761 - Security Lab Santhosh S 312217104 143 18.12.20 OSE-C' Qn: Caesar wants to arrange a secret meeting with Marc Antony, Either at the Tiber (the river) or at the Coleseum (the anena). He sends the shift upher text EVIRE. However, Antony does not know the key, so he ther all possibilities where will be meet Caesar? To decrypt me given encrypted fext using Expt Caesar Copher and find the place Procedure: .) Get the encrypted text as input. 2) Check all the possible combinations of the real plasm text. 3) Form the combinations by shifting each character the

the left by certain number of characters from 0 to 25

- 4) Check the possible combinations to find the two given coords.
- 5) If any one of them exist, then Caesar will meet arthony of that place
- 6) if both or none of them exists, then they cannot meet.

Result:
The given en compted text has been decrypted
successfully.

CODE:

```
class Main {
 public static void main(String[] args) {
   String str="EVIRE";
   String str1="ARENA";
   String str2="RIVER";
   String[] possibleCombinations=new String[26];
   StringBuilder dec=new StringBuilder();
   for(int i=0;i<26;i++){</pre>
     dec=new StringBuilder();
     for(int j=0;j<str.length();j++){</pre>
       char c= (char) ((str.charAt(j)-'A'-i+26)%26+'A');
       dec.append(c);
     possibleCombinations[i] = dec.toString();
   }
   int flag=0;
   for(String s: possibleCombinations){
     System.out.println(s);
     if(s.equals(str1)){
       if(flag==2) {
         flag=3;
       else flag=1;
     }else if(s.equals(str2)){
       if(flag==1){
         flag=3;
       }else flag=2;
     }
   }
   if (flag==1) {
     System.out.println("ARENA Found! Marc Anthony will meet Caesar at the
Coliseum arena");
   }else if(flag==2) {
     System.out.println("RIVER Found! Marc Anthony will meet Caesar at the
Tiber river");
   }else if(flag==3) {
```

```
System.out.println("ARENA and RIVER both are found. Marc Anthony
cannot meet Caesar");
    }else System.out.println("Neither of the places are found. Marc Anthony
cannot meet Caesar");
}
```

OUTPUT:

All the possible combinations:

```
0 EVIRE
1 DUHQD
```

2 CTGPC

3 BSFOB

4 ARENA

5 ZQDMZ

6 YPCLY

7 XOBKX

8 WNAJW

9 VMZIV

10 ULYHU

11 TKXGT

12 SJWFS

13 RIVER

14 QHUDQ

15 PGTCP

16 OFSBO

17 NERAN

18 MDQZM

19 LCPYL

20 KBOXK

21 JANWJ

22 IZMVI

23 HYLUH

24 GXKTG

25 FWJSF

ARENA and RIVER both are found. Marc Anthony cannot meet Caesar