## Lab5

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Cryptography and Network Security Lab (BCSE309P)

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Today's task:

1. Simplified DES

## Simplified DES:

Code:

```
for(int i=0; i<10; i++) arr[i] = inp[p10[i]];</pre>
System.out.println(Arrays.toString(key1));
```

## Output:

```
© Main.java
             public static void main(String[] args) {
                   int[] inp = {1, 1, 1, 0, 1, 1, 1, 0, 1, 0}; //Input String
                   System.out.println("Input value: "+Arrays.toString(inp));
                   int[] p10 = {2, 4, 1, 6, 3, 9, 0, 8, 7, 5};
                   int[] p8 = {5, 2, 6, 3, 7, 4, 9, 8};
                   int[] arr = new int[10];
                   for(int <u>i</u>=0; <u>i</u><10; <u>i</u>++){
                        arr[\underline{i}] = inp[p10[\underline{i}]];
                   int[] key1 = new int[8];
                   int[] key2 = new int[8];
                   rotate(arr, n: 1);
                   for(int \underline{i}=0; \underline{i}<8; \underline{i}++){
Run: Main ×
         C:\Users\kamat\.jdks\openjdk-17.0.2\bin\java.exe "-javaagent:C:\Progra
         Input value: [1, 1, 1, 0, 1, 1, 1, 0, 1, 0]
         Key1: [1, 1, 1, 0, 0, 1, 0, 1]
    <u>-</u>
         Key2: [0, 1, 1, 1, 0, 1, 1, 1]
    =
         Process finished with exit code 0
a b
```