2)

```java
import java.util.*;

public class Main {

    public static void main(String[] args) throws Exception {

        Scanner sc = new Scanner(System.in);
        System.out.println("Author:D.Aditya Varma\nSAP ID:51834693");
        System.out.println("Enter the first string:");
        String input = sc.nextLine();

        System.out.println("Enter the second string:");
        String rotation = sc.nextLine();

        if (checkRotatation(input, rotation)) {
            System.out.println(input + " and " + rotation
                    + " are rotation of each other");
        } else {
            System.out.println("they are not rotation of another");
        }

        sc.close();
    }

    public static boolean checkRotatation(String original, String rotation) {
        if (original.length() != rotation.length()) {
            return false;
        }
```

```java
        String concatenated = original + original;

        if (concatenated.indexOf(rotation) != -1) {
            return true;
        }

        return false;
    }
}
```

```
Author:Sk.Saifuddin
Enter the first string:
hii
Enter the second string:
ihi
hii and ihi are rotation of each other

Process finished.
```

3)

```java
import java.util.Scanner;

class Conversion
{
static int replaceDigit(int x, int a)
{
  int result = 0, multiply = 1;
  while (x % 10 > 0)
  {
    int remainder = x % 10;
    if (remainder != a)
    {
      result = result + remainder * multiply;
      multiply *= 10;
    }
    x = x / 10;
  }
  return result;
}
public static void main(String[] args)
{
  System.out.println("Name :Sk.Saifuddin");
  Scanner sc=new Scanner(System.in);
  System.out.print("Enter your number : ");
  int x = sc.nextInt();
  System.out.print("Enter number to be removed : ");
  int a = sc.nextInt();
```

```
        System.out.println(replaceDigit(x, a));

    }

    }
```

```
Name :Sk.Saifuddin
Enter your number : 618
Enter number to be removed : 1
68

Process finished.
```

4)

```
class Dcoder
{
  public static void main(String args[])
  {
    for(int i=1;i<=5;i++)
    {
```

```java
    for(int j=1;j<=i;j++)
    {
      if(i==5 && j==3)
      {
        System.out.print("@");
      }
      else if(j==1 || j==i)
      {
        System.out.print("1");
      }
      else
      {
        System.out.print("!");
      }
    }
    System.out.println();
  }
 }
}
```

```
1
11
1!1
1!!1
1!@!1

Process finished.
```

5)

import java.util.Arrays;

class Main

{

  public static void swap(int[] arr, int a, int b)

```java
{
  int temp = arr[a];
  arr[a] = arr[b];
  arr[b] = temp;
}

public static void bubbleSort(int[] arr, int x)
{
  for (int a = 0; a < x - 1; a++) {
    if (arr[a] > arr[a + 1]) {
      swap(arr, a, a + 1);
    }
  }
  if (x - 1 > 1) {
    bubbleSort(arr, x - 1);
  }
}

public static void main(String[] args)
{
  int[] arr = { 3, 5, 8, 4, 1, 9, -2 };

  bubbleSort(arr, arr.length);

  System.out.println("Author:Sk.Saifuddin");
  System.out.println(Arrays.toString(arr));
}
```

```
}
```

```
Author:Sk.Saifuddin
[-2, 1, 3, 4, 5, 8, 9]

Process finished.
```