Advanced Programming Lab 1

1. Write a simple program that prints your name and ID

Answer:

```
public class task1 {
    public static void main(String[] args) {
        System.out.println ("My name is : Aporna Bhoumick");
        System.out.println ("ID : 22234103264");
    }
}
```

2. Create a basic calculator for addition, subtraction, multiplication, and division. Answe

```
import java.util.Scanner;
oublic class task2 {
  public static void main(String[] args) {
      int add, sub, mul, div;
      int fun = input.nextInt();
      if (fun == 1) {
          add = a + b;
          System.out.println(add);
      else if (fun == 2)
          sub = a-b;
      else if (fun == 3)
          div = a/b;
```

3. Create a program that finds the maximum and minimum values in an array of

```
Integers.
Answer: import java.util.Scanner;
       Scanner input = new Scanner(System.in);
       System.out.println("Enter the Array elements : ");
       for (int i = 0; i < n; i++) {
           arr[i] = input.nextInt();
          if (arr[i] > max) {
          System.out.println("The miniimum number : " + min);
4. Write a program that can print a "Chessboard" like below:
10101010
01010101
10101010
01010101
10101010
01010101
10101010
01010101
Here.
1 represents black squares
0 represents white squares
Answer;
   public static void main(String[] args) {
       int twod[][] = new int[row][column];
```

5. Create a program that finds the maximum and minimum values in an array of integers.

Answer;

```
import java.util.Scanner;
public class task5 {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        System.out.print("Enter the array size: ");
        int n = input.nextInt();
        int[] arr = new int[10];
        int sum = 0;
        System.out.println("Enter the Array elements : ");
        for (int i = 0; i < n; i++) {
            arr[i] = input.nextInt();
            sum = sum + arr[i];
        }
        System.out.println("The Sum : " + sum);
        }
}</pre>
```