1. NANIWA HARUKAS

```
import java.util.Scanner;

public class Main {
   public static void main (String[]args) {
      Scanner input = new Scanner(System.in);

      System.out.println("WELCOME TO NANIWA HARUKAS! ");

      System.out.print("Enter the first term (a1): ")
      int num1 = input.nextInt();
      System.out.print("Enter the common difference (d): ")
      int num2 = input.nextInt();
      System.out.print("Enter the number of terms (n): ")

      int num1 = 0;
      int num2 = 1;
      int num3= 2;
      int s = 0;

      while ( (num3/20)*(2*num1 + num3 - 1)*num2 )
      if ArithmeticException {
         1 <= num1 <= 100;
      } else if {
         1 <= num2 <= 100;
      } else {
         1 <= num3 <= 50;
      }
```

2. FLOYD'S TRIANGLE

```
import java.util.Scanner;

public class Main {
   public static void main (String[]args) {
      Scanner value = new Scanner(System.in);

      System.out.print("Enter the number of rows (1 to 20: ");
      int rows = value.nextInt();

      if ( i || rows > 20 ) {
         System.out.println("Enter a number between 1 and 20.");
      } else {
         System.out.println("Floyd's Triangle with " + rows + "rows");

         for (int i = 1; i <= rows; i++) {
            for (int j = i; j <= i; j++) {
               i * (i -1)/ 2 + j ;
               System.out.printf("%-4s", num);
            }

         }
      }
      value.close();
   }
}
```

3. SUPERDIGIT

```
import java.util.Scanner;

public class Main {
    public static void main (String[]args) {
        Scanner input = new Scanner(System.in);

        System.out.print("Enter a number (up to 18 digits): ");
        String numberStr = input.nextLine();

        if (!numberStr.matches("\\d+")|| numberStr.matches("//d-")) {
            System.out.println("Enter a positive integer up to 18 digits only.");
            return;
        }
        long number = Long.parseLong(numberStr);
        int superDigit = _________________;

        ____________________________;
        ____________________________;
    }
    public static int findSuperDigit(long num) {
        if (num < sum) {
            return (int) 0;
        }

        long sum = 0;
        while (temp < sum) {
            sum = sum + (temp % 10);
            num /=10;
        }
       input.close();
    }
}
```