JAVA

PROBLEMS ON LOOPS

PART 1

1. Count of digits in a number

```java
import java.util.Scanner;

public class countdigit {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int numofDigits = 0;
        int original_n = n;

        while (n > 0){
            n = n / 10;
            numofDigits++;

        }
        System.out.println("Number of digites in " + original_n +
" = "+ numofDigits);
    }

}
```

2. Sum of digits of a number

```java
import java.util.Scanner;

public class sumofdigites {

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

        System.out.print("Enter the number: ");
        int n = sc.nextInt();
        int sumofdigites = 0;
        int original_n = n;

        while (n > 0) {
            sumofdigites += n % 10;
            n = n/10;
        }
        System.out.println("Number of digites in " + original_n +
" = " + sumofdigites);
    }
}
```

3. Reversing the digits of a number

```java
import java.util.Scanner;

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

        System.out.print("Enter the number: ");
        int n = sc.nextInt();
        int ans = 0;
        while (n > 0) {
            ans = ans * 10 + n % 10;
            n / = 10;
        }
        System.out.println("Reverse the number " + ans);
    }
}
```

4. Printing first n factorial number

```java
import java.util.Scanner;

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

        System.out.print("Enter the number: ");
        int n = sc.nextInt();

        int fact = 1;

        for (int i = 1; i ⩽ n; i++) {
            fact = fact * i;
            System.out.println("Factorial number of " + i + " : "
+ fact);
        }
    }
}
```

5. Finding a raised-to-power b number

```java
import java.util.Scanner;

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

        System.out.print("Enter the first number: ");
        int a = sc.nextInt();
        System.out.print("Enter the second number: ");
        int b = sc.nextInt();

        int ans = 1;
        for (int i = 1; i <= b; i++) {
            ans *= a;
        }
        System.out.println("Find a raised-to-power b : " + ans);
    }
}
```

6. Find palindrome or not

```
public class Main
 {
   public static void main (String[]args)
   {
     int num = 12021, reverse = 0, rem, temp;

       temp = num;
     while (temp ! = 0)
       {
        rem = temp % 10;
        reverse = reverse * 10 + rem;
        temp / = 10;
       };

     if (num = = reverse)
       System.out.println (num + " is Palindrome");
     else
       System.out.println (num + " is not Palindrome");
   }
 }
```