Assignment no: 1

```java
package swapnumber;

import java.util.Scanner;

public class EvenOddCheck1 {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);

 System.out.print("Enter a number: ");
int num = scanner.nextInt();

        if (num % 2 == 0) {
            System.out.println(num + " is even.");
        } else {
            System.out.println(num + " is odd.");

}

        scanner.close();
    }
}
```

 OUTPUT:

```
Enter a number: 51
51 is odd.
```

Assignment no: 2

```java
package swapnumber;

import java.util.Scanner;

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

   System.out.print("Enter a number:");
Int     num     =     scanner.nextInt();
boolean isPrime = true;
    if (num <= 1) {
isPrime = false;
} else {
      for (int i = 2; i <= Math.sqrt(num); i++)
{
        if (num % i == 0) {
       isPrime = false;
                break;
            }
          }

}

        if (isPrime) {
            System.out.println(num + " is a prime number.");
        } else {
            System.out.println(num + " is not a prime number.");

}
        scanner.close();
    }
}
```

 OUTPUT:
Enter a number: 9
9 is not a prime
number.

Assignment no: 3

```java
package swapnumber;

public class PrintNumbers {
public static void main(String[]args)
{
 for (int i = 1; i <= 20; i++) {
            System.out.println(i);
        }
    }
}
```

OUTPUT:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Assignment no: *4*

```java
package swapnumber;

public class PrintNumbers {
public static void main(String[]
args) {
  for (int i = 1; i <= 10; i++) {
if (i == 5 || i == 6) {
continue; /
            }
          System.out.println(i);
        }
    }
}
```

 OUTPUT:
1
2
3
4
7
8
9
10

Assignment no: *5*

```java
package swapnumber;

public class TableOfFive {
    public static void main(String[]
args) {
 int num = 5;

        for (int i = 1; i <= 10; i++) {
            System.out.println(num + " x " + i + " = " + (num * i));
        }
    }
}
```

 OUTPUT:

```
5 x 1 = 5
5 x 2 = 10
5 x 3 = 15
5 x 4 = 20
5 x 5 = 25
5 x 6 = 30
5 x 7 = 35
5 x 8 = 40
5 x 9 = 45
5 x 10 = 50
```

Assignment no: *6*

```java
package swapnumber;

public class PrintHello {
public static void main(String[] args) {
for (int i = 1; i <= 5; i++) {
System.out.println("Hello");
        }
    }
}
```

 OUTPUT:

```
Hello
Hello
Hello
Hello
Hello
```

Assignment no: *7*

```java
package swapnumber;

import java.util.Scanner;

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

    System.out.print("Enter a number: ");
 int num = scanner.nextInt();

        for (int i = 1; i <= 10; i++) {
            System.out.println(num + " x " + i + " = " + (num * i));

}

        scanner.close();
    }
}
```

OUTPUT:

```
Enter a number: 1
1 x 1 = 1
1 x 2 = 2
1 x 3 = 3
1 x 4 = 4
1 x 5 = 5
1 x 6 = 6
1 x 7 = 7
1 x 8 = 8
1 x 9 = 9
1 x 10 = 10
```

Assignment no: *8*

```java
package swapnumber;

public class ReverseNumber1 {
    public static void main(String[] args) {
int number = 1234;
int reverse = 0;

        while (number != 0) {
            int digit = number % 10;
            reverse = reverse * 10 + digit;
             number = number / 10;
}

        System.out.println("The reverse of 1234 is: " + reverse);
    }
}
```

OUTPUT:

The reverse of 1234 is: 4321

Assignment no: *9*

```java
package swapnumber; public class
PalindromeCheck {      public static
void main(String[] args) {
        int num = 121, reversedNum = 0, originalNum = num;
         while (num != 0) {
int digit = num % 10;
reversedNum = reversedNum * 10 + digit;
num /= 10;

}
        if (originalNum == reversedNum) {
 System.out.println(originalNum + " is a palindrome.");
} else {
  System.out.println(originalNum + " is not a palindrome.");
        }
    }
}
```

OUTPUT:

121 is a palindrome.

Assignment no: 10

```java
package swapnumber;

import java.util.Scanner;

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

 System.out.print("Enter a number: ");
int num = scanner.nextInt();
        int reversedNum = 0, originalNum = num;
         while (num != 0)
{
 int digit num % 10;
            reversedNum = reversedNum * 10 +
digit;              num /= 10;

}
        if (originalNum == reversedNum) {
 System.out.println(originalNum + " is a palindrome.");
} else {
      System.out.println(originalNum + " is not a palindrome.");

}
        scanner.close();
    }
}
```
 OUTPUT:
Enter a number:7
7 is a
palindrome.

Assignment no: *11*

```java
package swapnumber;

public class ArmstrongCheck {
 public static void main(String[] args) {
int num = 153, originalNum = num, result = 0;
        while (num != 0) {
int digit = num % 10;
result += Math.pow(digit, 3);
num /= 10;

}
       if (originalNum == result) {
 System.out.println(originalNum + " is an Armstrong number.");
} else {
   System.out.println(originalNum + " is not an Armstrong number.");
       }
     }
}
```

OUTPUT:
153 is an Armstrong number.

Assignment no: *12*

```java
package swapnumber;

import java.util.Scanner;

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

        System.out.print("Enter a
number: ");
int num = scanner.nextInt();
        int originalNum = num, result = 0, digits =
String.valueOf(num).length();
          while (num != 0) {
int digit = num % 10;
result += Math.pow(digit, digits);
             num /= 10;

}
        if (originalNum == result) {
 System.out.println(originalNum + " is an Armstrong number.");
} else {
System.out.println(originalNum + " is not an Armstrong number.");
}
        scanner.close();
    }
}
```

 OUTPUT:
Enter a number: 8
8 is an Armstrong number.

Assignment no: *13*

```java
package swapnumber;

public class ArmstrongNumbers {
    public static void main(String[] args) {
        System.out.println("Armstrong numbers from 1 to 1000:");

        for (int num = 1; num <= 1000; num++) {
            int originalNum = num, result = 0, digits =
String.valueOf(num).length();

            while (originalNum != 0) {

int digit = originalNum % 10;
result += Math.pow(digit, digits);
originalNum /= 10;
            }
 if (result == num) {
System.out.println(num);
            }
        }
    }
}
```

 OUTPUT:
Armstrong numbers from 1 to 1000:
1
2
3
4
5
6
7
8
9
153
370
371
407

Assignment no: *14*

```java
package swapnumber;

public class PalindromeNumbers {
public static void main(String[]
args) {
        System.out.println("Palindrome numbers from 1 to 100:");
 for (int num = 1; num <= 100; num++) {
  if (isPalindrome(num)) {
System.out.println(num);
            }
        }
    }        public static boolean
isPalindrome(int num) {
  int originalNum = num, reversedNum = 0;
        while (num != 0) {
          int digit = num % 10;
reversedNum = reversedNum * 10 + digit;
num /= 10;

}
        return originalNum == reversedNum;

}
}
```

OUTPUT:
Palindrome numbers from 1 to 100:
1
2
3
4
5
6
7
8
9
11

22
33
44
55
66
77
88
99