1. LEAP YEAR

```java
package test1;
import java.util.Scanner;
interface Leap1{
    public void leap();
}
class Year implements Leap1{
    public void leap(){
        Scanner s = new Scanner(System.in);
        System.out.print("Enter a year:");
        int year = s.nextInt();

        if(year %4==0 && year %100!=0 || year %400==0 ) {
          System.out.println(year +" is a leap year.");
        }
        else {
            System.out.println(year + " is not a leap year.");
        }
    }
}
public class Leap {

    public static void main(String[] args) {
        Year y = new Year();
        y.leap();

    }

}
```

OUTPUT:

Enter a year:2024
2024 is a leap year.

2. SQUARE ROOT

```java
package test1;
import java.util.Scanner;
abstract class Square{
    abstract public void square();
}
class Root extends Square{
    public void square() {
        do {
            Scanner s = new Scanner(System.in);
            System.out.println("Enter a NUmber:");
            int n=s.nextInt();
            double square=Math.pow(n,0.5);
        System.out.println("root of " +n + "=" + square);
    }while (false);
}
    }

public class SquareRoot {
    public static void main(String[] args) {
        Root r = new Root();
        r.square();

    }

}
```

OUTPUT:

Enter a NUmber:
89
root of 89=9.433981132056603

3. REVERSE NUMBER

```java
package test1;
```

```java
import java.util.Scanner;
interface Rever{
      public void reverse();
}
class Reverse1 implements  Rever{
      Scanner s = new Scanner(System.in);
      int n;
      int reverse=0,remainder;
      public void reverse() {
            System.out.println("Enter a number:");
            n= s.nextInt();
      while(n!=0) {

                  remainder= n %10;
                  reverse =reverse *10 + remainder;
                  n/=10;
            }
      System.out.println("Reverse Number:"+reverse);
      }

}

public class Reverse {

      public static void main(String[] args) {
            Reverse1 r = new Reverse1();
            r.reverse();

      }

}
```

OUTPUT:

Enter a number:
123435
Reverse Number:534321