

1 Aufgabe 1

```
public static boolean stringMatcher(String text, String
    wort)
{
    for(int i=0;i<text.length();i++)
    {
        if(text.startsWith(wort, i))
            return true;
    }
    return false;
}
```

2 Aufgabe 2

```
public static boolean isPalindrom(String s)
{
    String reverse = "";
    s = s.toLowerCase();
    for(int i = s.length()-1;i>=0;i--)
    {
        reverse = reverse + s.charAt(i);
    }
    if(reverse.equals(s))
        return true;
    else return false;
}
```

3 Aufgabe 3**4 Aufgabe 4**

```
public static double vieta1(double p, double q) throws
    IllegalArgumentException
{
    if(q > (p*p/4))
        throw new IllegalArgumentException("
            Diskriminante_kleiner_0!");
    return (-p/2 + Math.sqrt((p*p/4)-q));
}
```

```
public static double vieta2(double p, double q)
{
    if(q > (p*p/4))
        throw new IllegalArgumentException("
            Diskriminante kleiner 0!");
    return (-p/2 - Math.sqrt((p*p/4)-q));
}
```