

string equalities

```
String abc = "abc"; String def = "def";
```

```
// Bad way  
if ( (abc + def) == "abcdef" )  
{  
    .....  
}
```

```
// Good way  
if ( (abc + def).equals("abcdef") )  
{  
    .....  
}
```

<http://java.sun.com/j2se/1.3/docs/api/java/lang/String.html>
(google "java string")

infinite?

```
x=1;
```

```
y=1;
```

```
while (x<5) {
```

```
    x=y;
```

```
    while(y<3) {
```

```
        x=y++;
```

```
    }
```

```
}
```

void functions

```
void functionName()  
{  
    //do something  
}
```

function with return value

```
int addNumbers(int x, int y)
{
    int z=x+y;

    return z;
}
```

function with return value

```
boolean compareNumbers(int x, int y)
{
    if(x<y)
        return true;
    else
        return false;
}
```

```
public static void main(String[] args) {  
    ...  
    System.out.println("How many points did you get?");  
    a = Console.in.readInt();  
    System.out.println("Your grade is " + letterGrade(a));  
    ...  
}
```

```
char letterGrade(int numGrade) {  
    if (numGrade >= 90)  
        return 'A';    // 90 or above gets an A  
    else if (numGrade >= 80)  
        return 'B';    // 80 to 89 gets a B  
    else if (numGrade >= 65)  
        return 'C';    // 65 to 79 gets a C  
    else if (numGrade >= 50)  
        return 'D';    // 50 to 64 gets a D  
    else  
        return 'F';    // anything else gets an F  
}
```