

STRINGS

1. `int n = str.indexOf("!");`
2. `String s = str.substring(3, 5);`
3. `String s = "";`
`while (str.length() > 0) {`
 `s += str.substring(str.length() - 1);`
 `str = str.substring(0, str.length() - 1);`
`}`
4. `int len = str.length();`
`int half = str.length() / 2; // 7 yields 3, so does 6`
`String s = str.substring(half);`
5. `int i = str.indexOf("0");`
`int j = str.indexOf("0", i + 1);`
`int sum = i + j;`

loop version :

```
int i = str.indexOf("0")
int sum = 0;
while (i > -1) {
    sum += i;
    i = str.indexOf("0", i + 1);
}
```

Classes and Objects

1. public class Boy {
2. public Boy (String nm, int w, String hr, String eyes)
3. this (nm, w, hair, eyes)
4. main method of client code
5. instance variables

Block Scope

1. num is a local variable in constructor.
instance variable receive no value. block/scope issue
2. remove int in front of variable in constructor
3. local variable
4. remove int in front of num in method1.