

## Exercises:

1. Write an application that prompts the user to enter a string as input and reads this string. Then use a loop to print the string characters in reverse order on one line.
2. Look up the java api to find a method that will return the last part of a string (a substring) if you give the character index of the starting part to return.
3. In the java api, find a method that returns the middle portion of a string if you provide the starting and ending indices. Test your method out on several strings.
4. Write an application that prompts the user to enter a string. Convert all the lower case 'a's in your string to upper case 'A's.
5. Find a java api String method that does the same thing as your application above (replaces all occurrences of a character by another).
6. Write an application that prompts the user to enter a string. Then reverse all the characters in the string. Then print out the new string.
7. Write an application that prompts the user to enter a string. Write a method called `isPalindrome` that returns a boolean value (true/false) depending upon whether the input string was a palindrome or not. Test out your application with several inputs.
8. Write an application that prompts the user to enter a string as input. Then print out the numeric unicode for each character in the string. Hint: type case each character to an (int) variable. This exercise will be critical for your Steganography application.
9. Write an application that converts each 'a' to a 'b', each 'b' to a 'c', each 'c' to a 'd', ..., and each 'z' to an 'a'. This is called a rotation cipher because we are rotating the characters to the next letter in the alphabet.