

Assignment-4

1) Describe the regular expression for each of these languages

1(1) - $\{x \mid \text{every odd position of } x \text{ is } 1\}$.

$(1(0+1))^* (1+\epsilon)$ This is the regular expression for the above language.

1(4) - $\{x \mid x \text{ contains even number of } 0's\}$.

$1^* + (1^* 0 1^* 0)^* 1^*$ This is the regular expression for the above language