

ESc101N: Fundamentals of computing(Lab Session 11)

October 27, 2009

Instructions

1. Please read the question carefully and write the program accordingly
2. Make sure that the TA has graded you program
3. The marks are distributed as follows. You get 60% of the marks if the basic algorithm is current, 20% if you manage to compile and execute and 20% for writing the code cleanly, i.e. using proper variable names, intending and making the code more readable.

Question 1. (10 marks) Write a program `asciip` which will print the ascii values of characters in a file in octal. For example if the file contains `Aa10` then it should print `101 141 61 60`. The program `asciip` should take command line arguments in which case it prints the ascii values of the characters in the file names given in command line one after the other. If the program is given no command line then it should print the ascii values of characters given on its standard input. As a result the following two commands should give the same output.

```
$ cat foo bar | asciip
$ asciip foo bar
```

For cleaner look after the ascii value of each character put a tab `'\t'` instead of a space. Also it helps if after processing 8 characters print a newline `'\n'`.

Sample output is given below

```
Script started on Tue 27 Oct 2009 11:38:28 IST
sh-4.0$ cat foo
foo
sh-4.0$ cat test
Aabb
sh-4.0$ cat foo test | asciip
146      157      157      12      101      141      142      142
12
sh-4.0$ asciip foo test
146      157      157      12      101      141      142      142
12
sh-4.0$ exit
```

```
Script done on Tue 27 Oct 2009 11:38:50 IST
```