Assignment 2

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1. 00100011 01110001 11110001 01100001 = 35 113 241 97 or 486

00100011 = 0+0+32+0+0+0+2+1 = 35

01110001 = 0+64+32+16+0+0+0+1 = 113

11110001 = 128+64+32+16+0+0+0+1 = 241

01100001 = 0+64+32+0+0+0+0+1 = 97

1. 342 = 00000000 00000000 11111111 01010111 (255 + 87 = 342)

00000000 = 0

00000000 = 0

11111111 = 255

01010111 = 87

1. 3.1 = The file is a normal file. The owner is Monette and the group name is staff. Owner has permissions to read, write and execute. Group and others have no permissions.
   1. = The file is a text file. The owner is kliu and the group name is student. Owner has permissions to read and write. Group and others have no permissions.
2. 4.1) 777 = Owner, Group, and Other all have all permissions (rwx)

4.2) 655 = Owner has Read and write permissions (rw-), Group and Other both have Read and Execute permissions (r-x)

4.3) 455 = Owner has Read permissions (r--), Group and Other both have Read and Execute permissions (r-x)

5. 777 is the riskiest because every person has the same amount of power as the owner, meaning they could do anything the owner can, giving them too much power. 655 is the safest as the owner is the only person allowed to make changes to the files, group and others can only read and run the files, not modify them.

6.

a) chmod (-rw,-wx,-wx) foo.txt

b) chmod (-r,-wx+r,-rwx) foo.txt

c) chmod (-rw,-wx,-wx) foo.txt

d) chmod (-w, -wx,-rwx) foo.txt