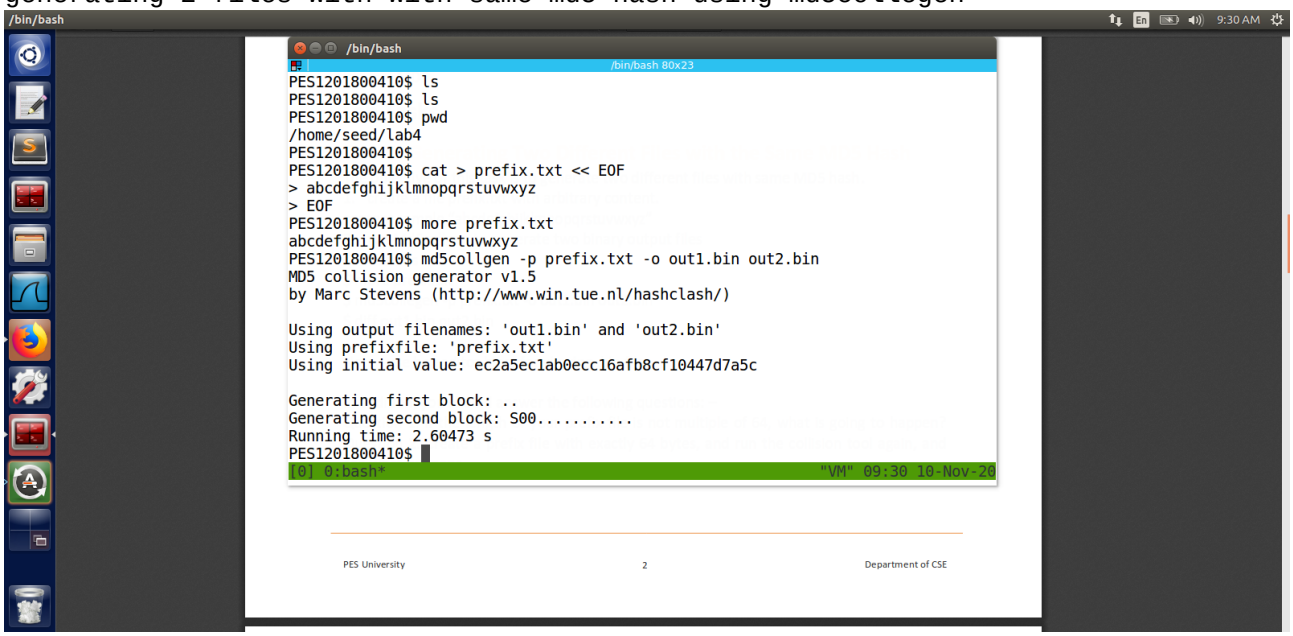
PES1201800410 sem V A R PRASHANTH

lab 4

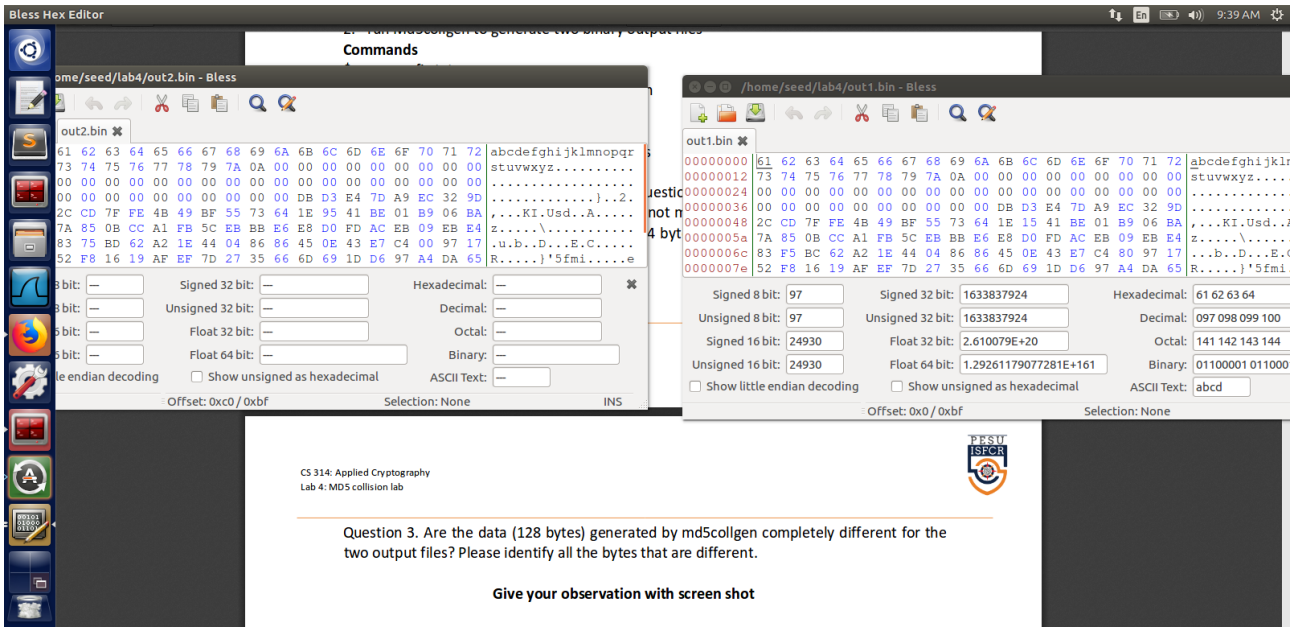
MD5 Collision Attack Lab

Task 1

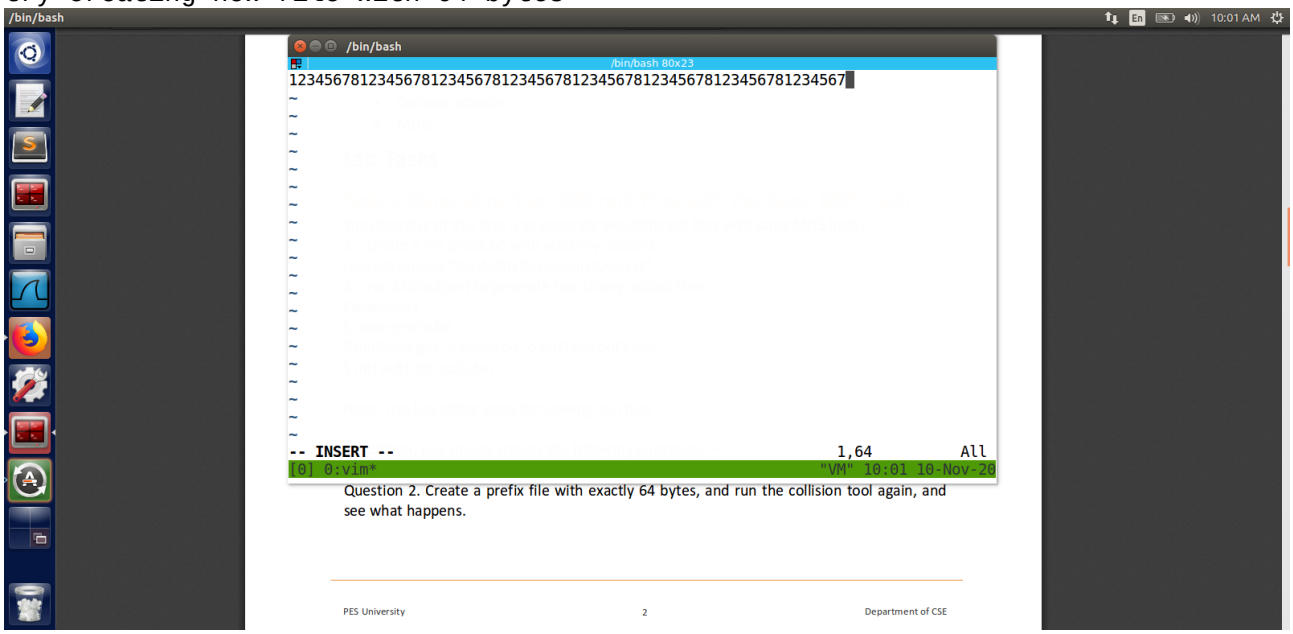
generating 2 files with with same md5 hash using md5collegen



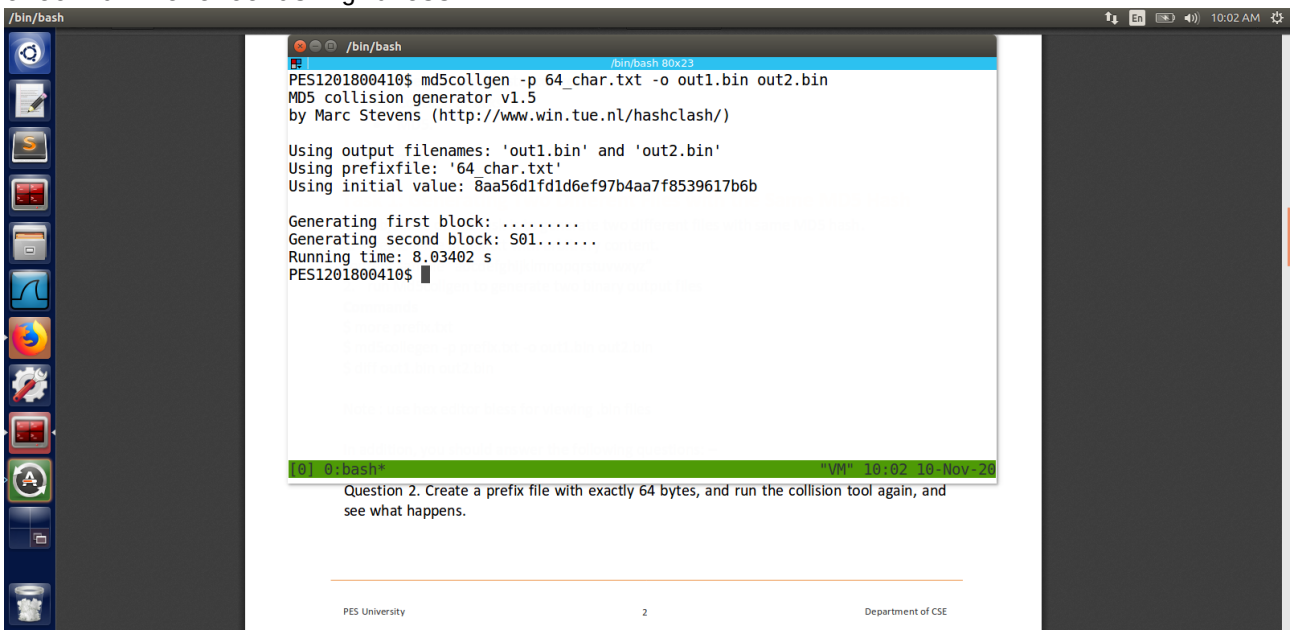
watch the difference in bless

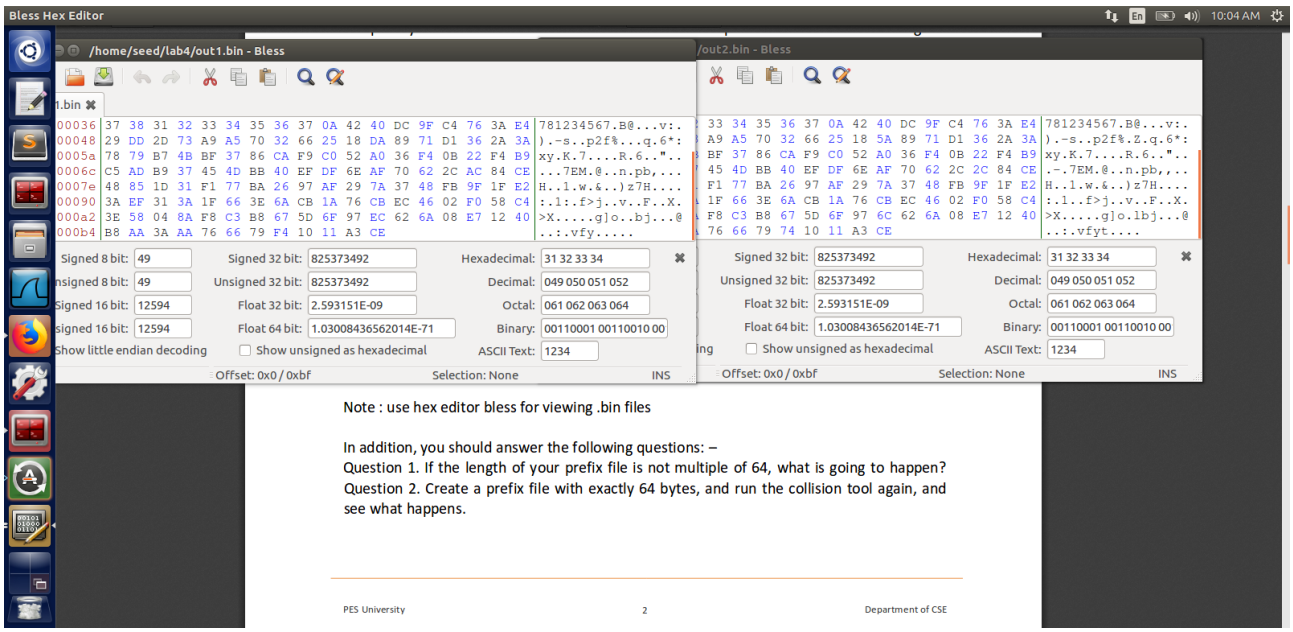


try creating new file with 64 bytes



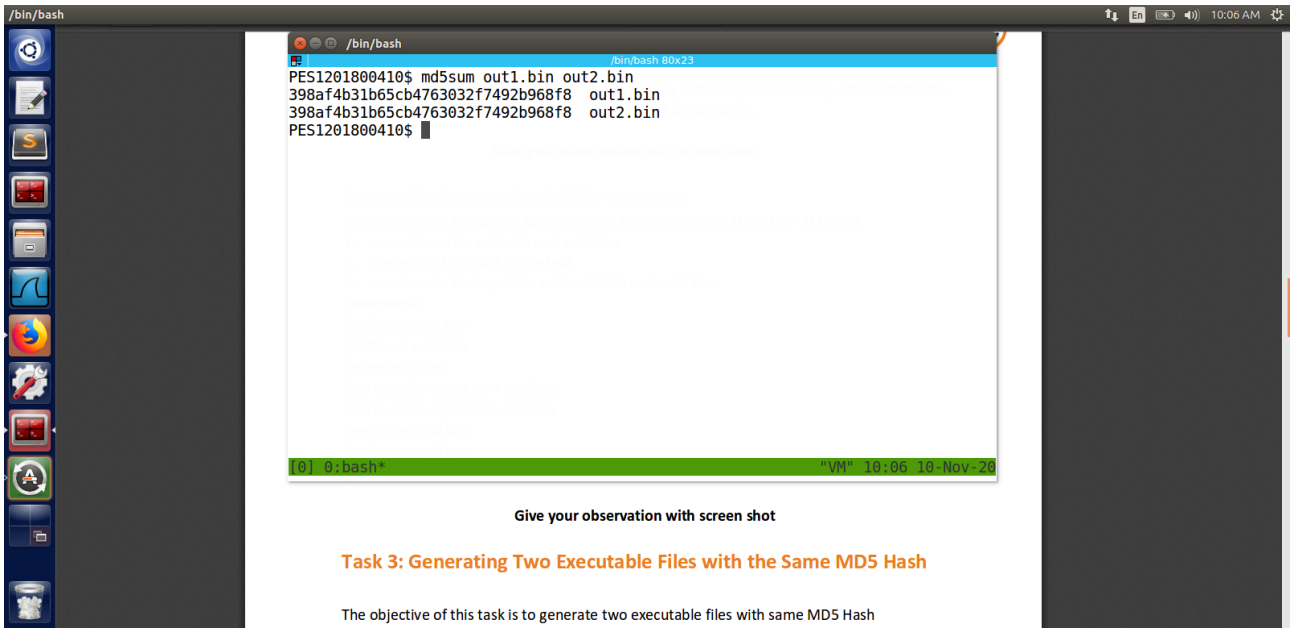
create 2 files with md5collegen
check difference using bless



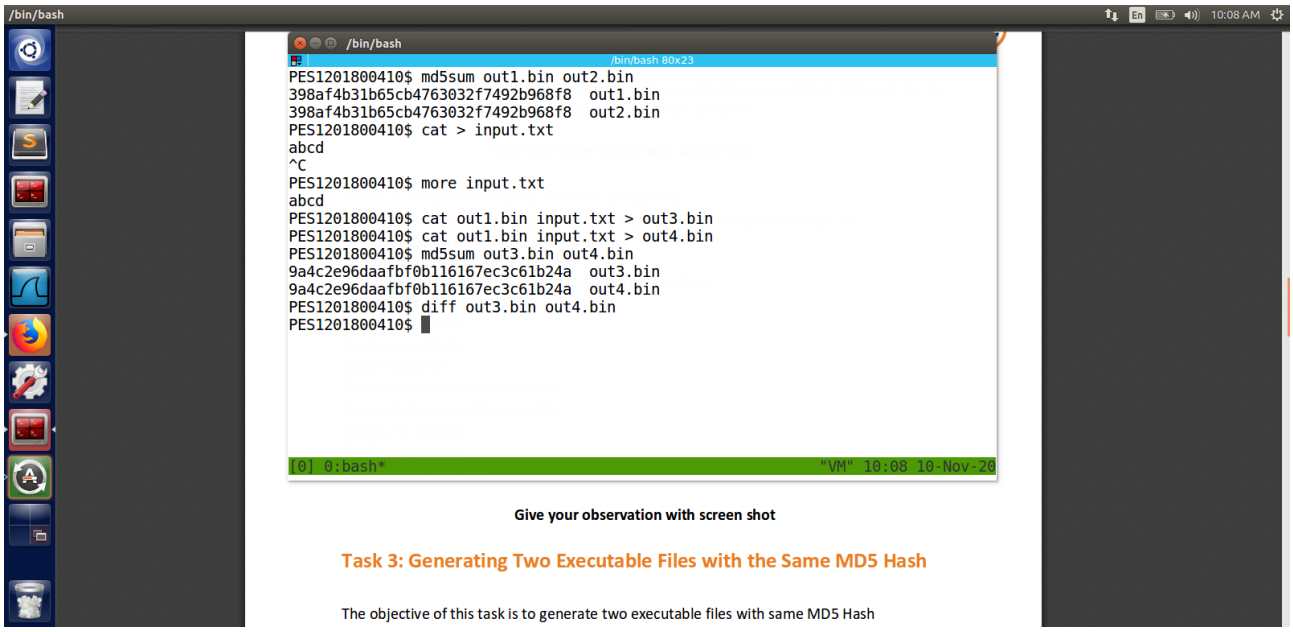


we can obeserve that there is no padding of \x00 in the end of the data.
Ans 1: there will be a 00 till the file becomes multiple of 64
And 2: there will be no 00 or padding as it will be multiple of 64
And 3: as we can see there are minor changes

Task 2
find md5sum of both files



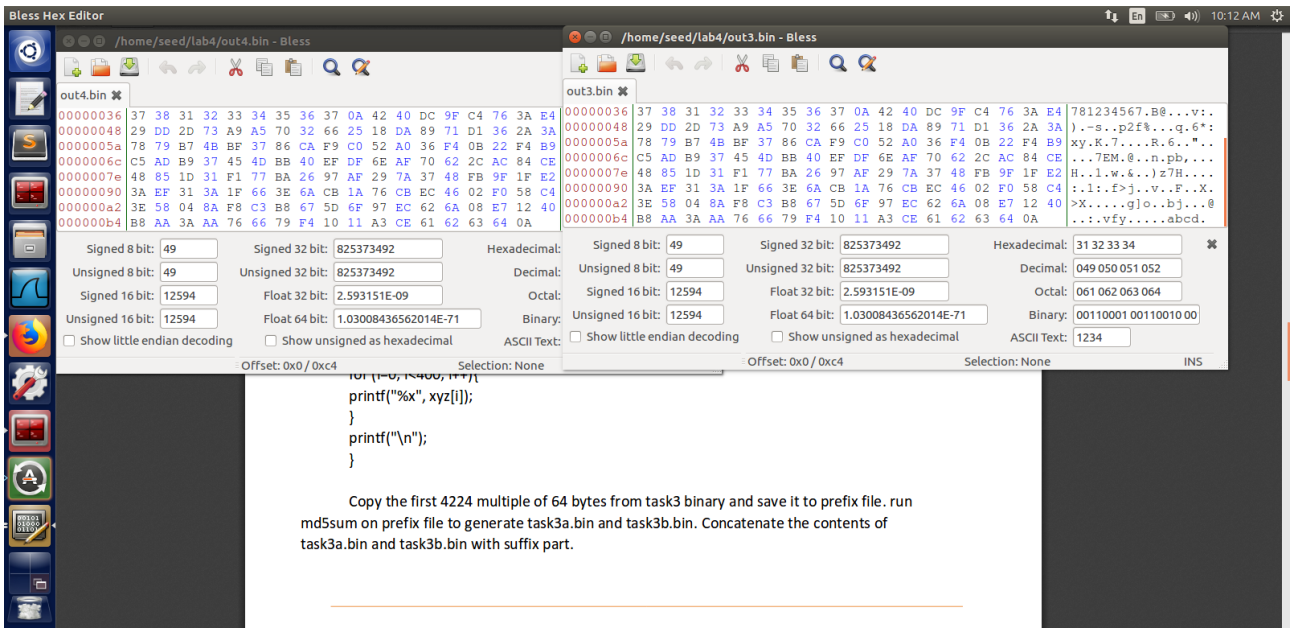
create a file with adding some input string to both the file and check for md5sum



Give your observation with screen shot

Task 3: Generating Two Executable Files with the Same MD5 Hash

The objective of this task is to generate two executable files with same MD5 Hash



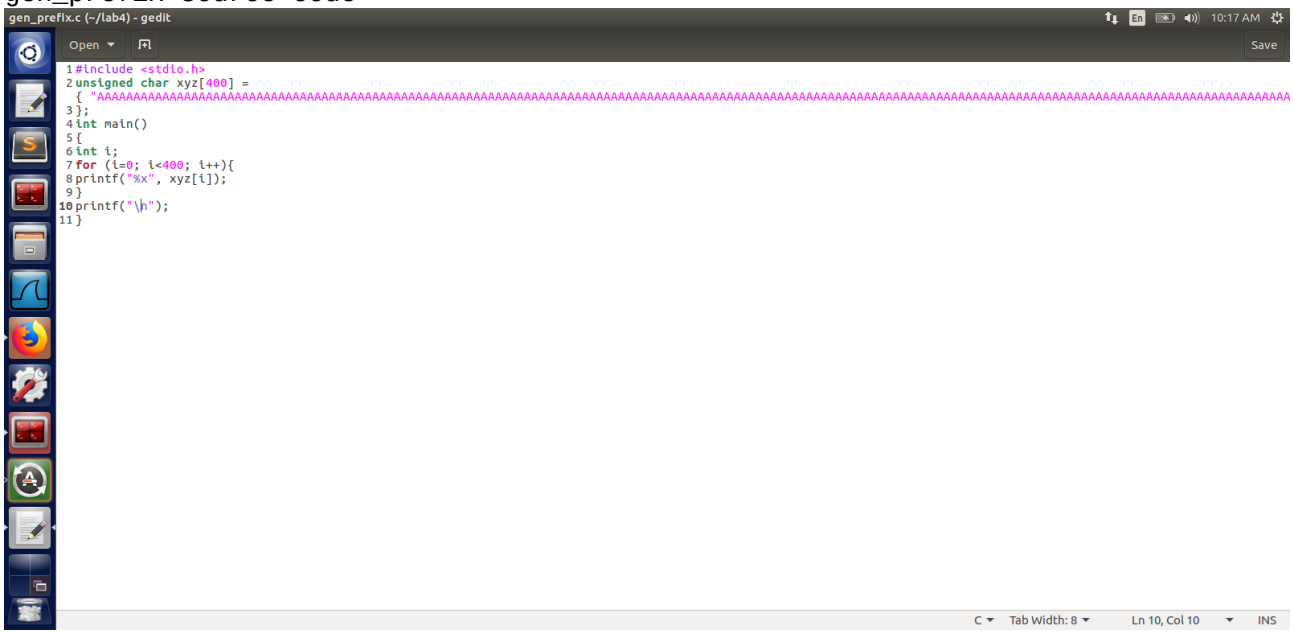

```
printf("%x", xyz[i]);
}
printf("\n");
}
```

Copy the first 4224 multiple of 64 bytes from task3 binary and save it to prefix file. run md5sum on prefix file to generate task3a.bin and task3b.bin. Concatenate the contents of task3a.bin and task3b.bin with suffix part.

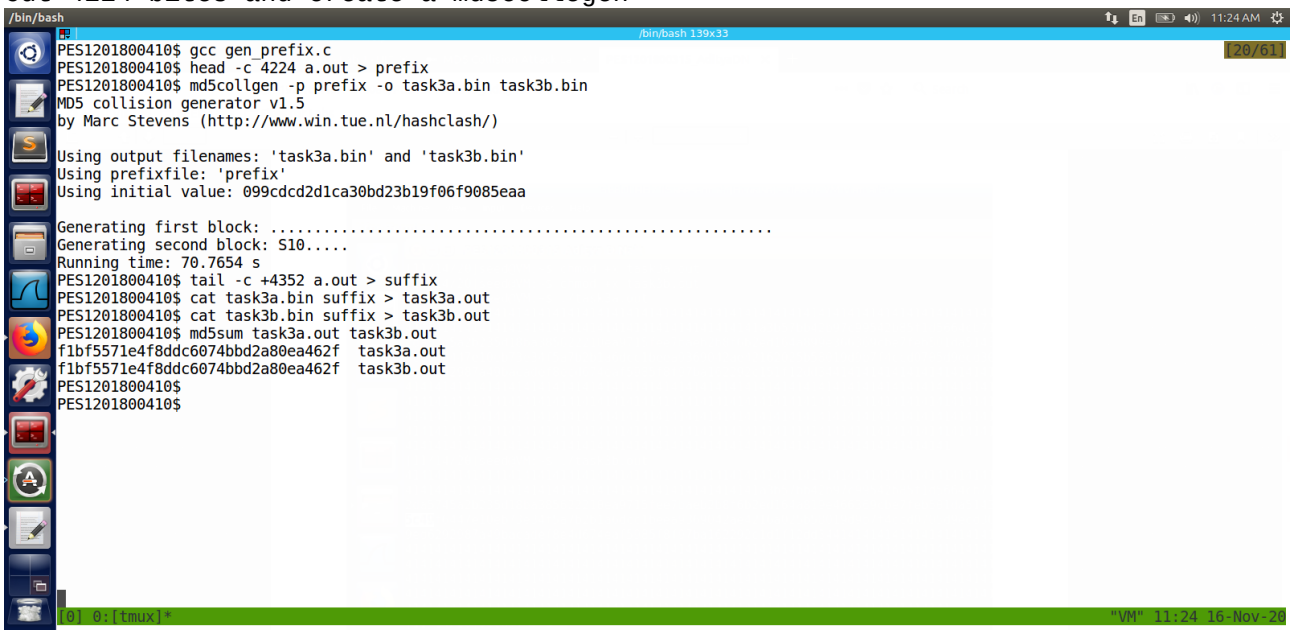
Task 3

compile gen_prefix.c file given in the manual .

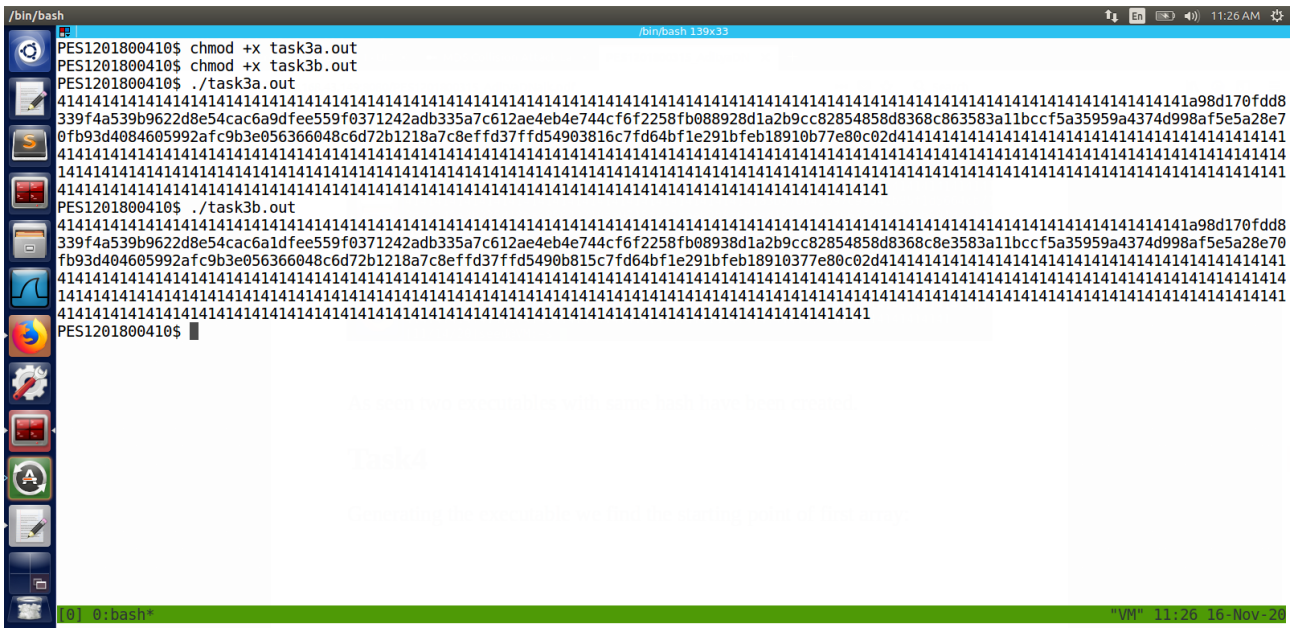
gen_prefix source code



Cut 4224 bites and create a md5collegen

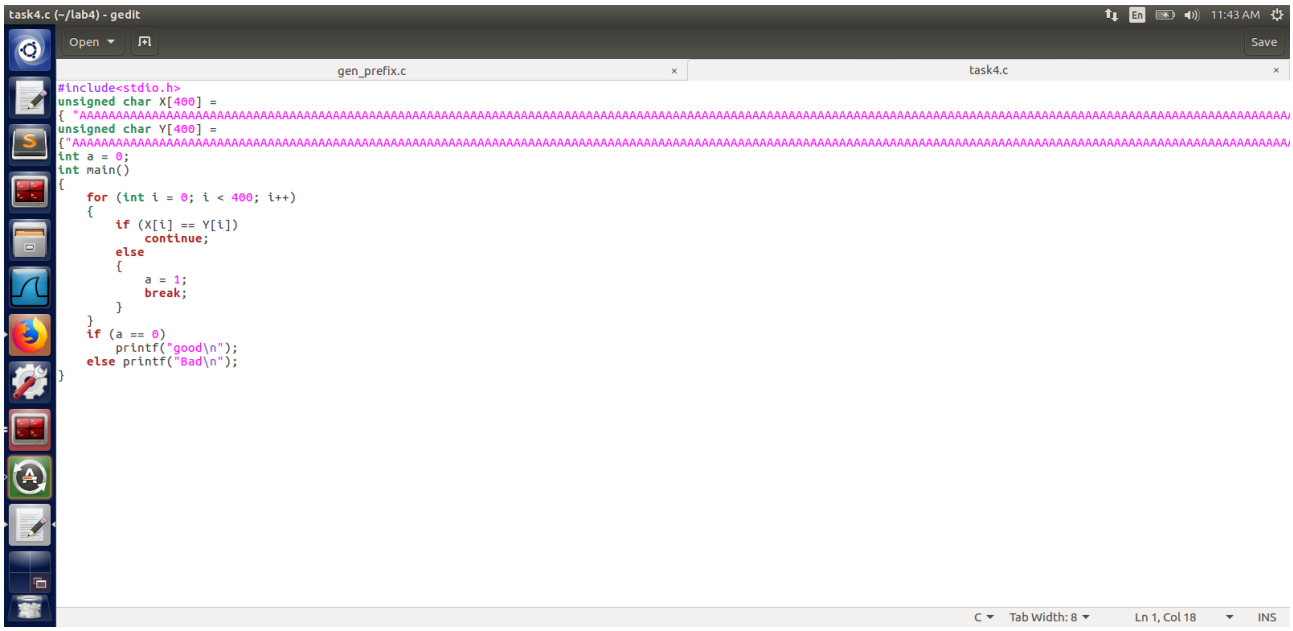


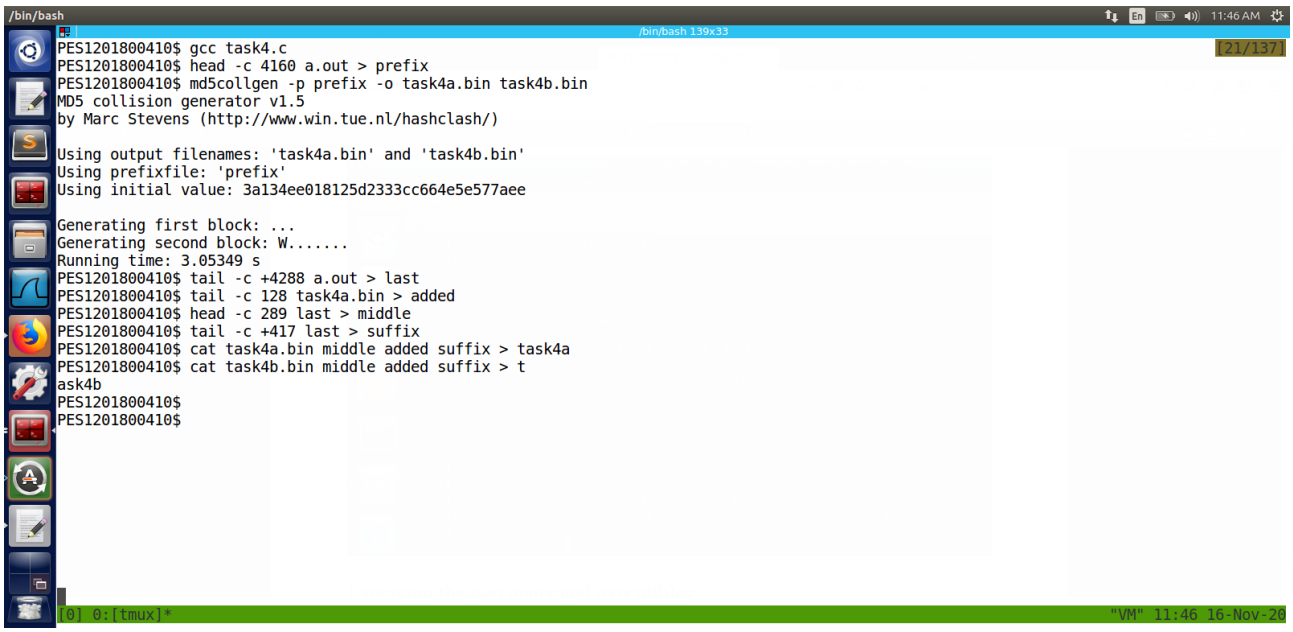
execute and check for differences in both the programms



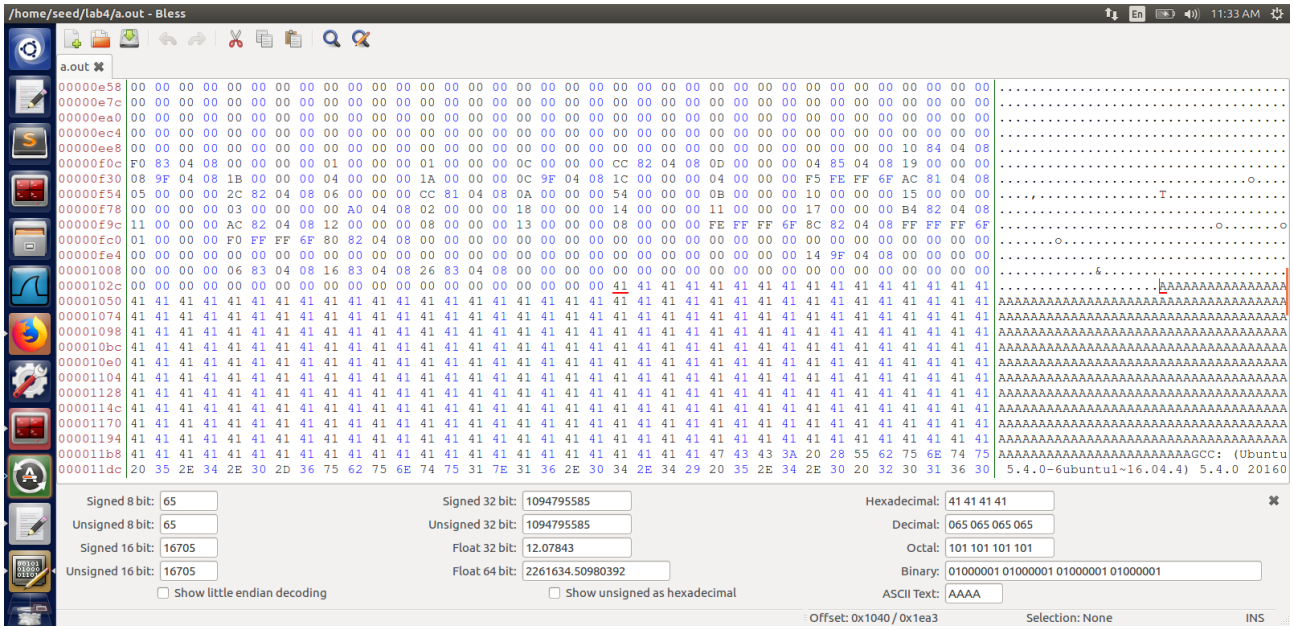
Task 4

compile the source code given
task4.c

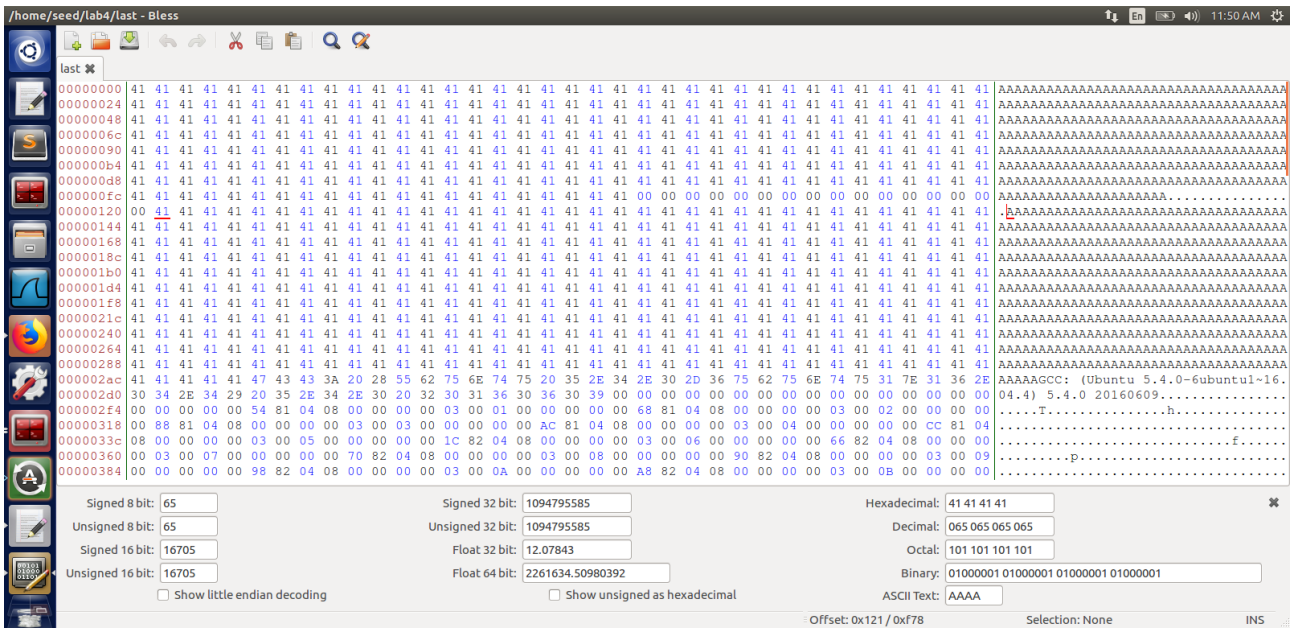




bless of a.out



bless of last



execute and see the differences
if there is any changes in the file it will print bad else good