**Unix Exam JAN 23, 2017**

Time 1 Hr

1. Create a folder in your home directory. The folder’s name is “Exam\_Jan23\_2017\_yourname”. E.g. (**Exam\_Jan23\_2017\_Fedorov**); I will call it as “exam folder” in the followings.
2. In your exam folder, create a file with name “Answer\_yourname”. **E.g. (Answer\_Fedorov);**

I will refer this file as “answer sheet” in the following.

1. There is a file named **Question\_3\_file\_JAN\_2017** in the location /home/rajib/IBC\_UNIX\_2017. Copy the file into your “exam folder”. Rename this file to “**CHR\_2.txt**”. Include your command lines in your answer sheet.
2. ***With a single command line,*** extract the first 10 lines from the file **CHR\_2.txt** , display the line numbers and put them into a new file named “**Q\_4.txt**” (**without opening** the **CHR\_2.txt** file). Include your command lines in your answer sheet.
3. Please tell me how many lines, words and characters are there in the new **Q\_4.txt** file? Include your command line in your answer sheet.
4. Please tell me how many lines in the new **Q\_4.txt** file contains the word **example?**

Include your command line in your answer sheet.

1. There is another file named **CHR\_1.txt** in the location /home/rajib/IBC\_UNIX\_2017. Copy the file into your “exam folder”. Sort the lines of this file **numerically** according to the 2nd column of this file into a new file named **SORTED\_CHR\_1.txt.** Include your command lines in your answer sheet.
2. How many compressed files are there in the location /home/rajib/IBC\_UNIX\_2017?
3. In the location /home/rajib/IBC\_UNIX\_2017, in the zipped file named **NONCODE2016\_sacCer3.lncAndGene.bed.gz** there is a line containing **“NONSCEG000014.2**”. I would like to see the line containing it. Please extract this information ***with a single command*** **without copying** this zipped file into your folder **and without unzipping** this file. Put your command line in the answer sheet.