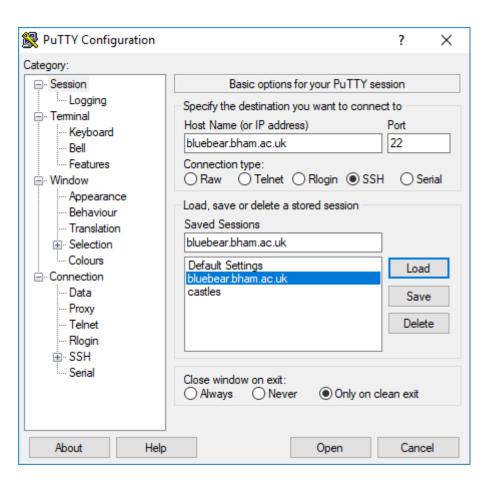
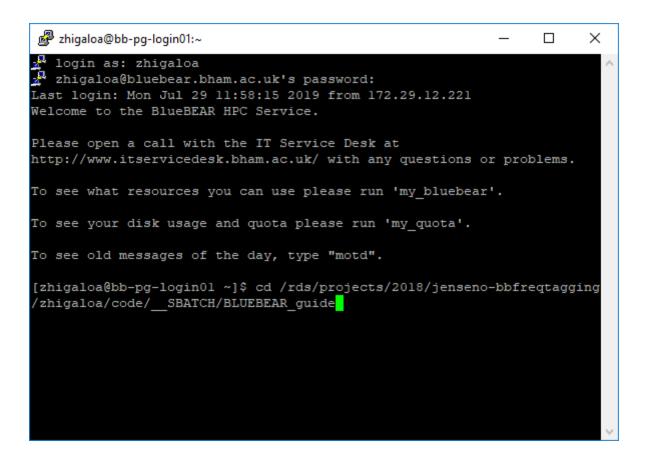
**Step 1**: Open PUTTY and login to bluebear.bham.ac.uk



**Step 2**: Select folder with the scripts using "cd" command



**Step 3**: In "SB\_RUN.sh" (1) set subject indices: tSubjects=(1 2 5); (2) set name of your MATLAB script: f="my\_script.m", (3) set computation time: t="12:00:00" and (4) memory: m="16GB".

In this example, subjects with indices 1, 2 and 5 are selected; script name is "my\_script"; time is 12 hours; memory is 16 GB.

```
d:\code\_SBATCH\BLUEBEAR_guide_2\SB_RUN.sh - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
BB_RUN.sh ■
       #!/bin/bash
       # set parameters
      declare -a tSubjects=(1 2 5) # subject index
      f="my script" # your MATLAB function name
       t="12:00:00" # time
       m="16GB"
                     # memory
       # do not change code below this line
       fname="$f.sbatch"
       echo "#!/bin/bash" > $fname
       echo "#SBATCH --ntasks 1" >> $fname
       echo "#SBATCH --time $t" >> $fname
      echo "#SBATCH --qos bbdefault" >> $fname
       echo "#SBATCH --mem $m" >> $fname
       echo "" >> $fname
       echo "set -e" >> $fname
       echo "" >> $fname
       echo "module purge; module load bluebear" >> $fname
       echo "module load MATLAB/2018b" >> $fname
       echo "" >> $fname
       echo "i=\$1" >> $fname
       echo "i=\"\${i:1:\${#i}}\"" >> $fname
       echo "" >> $fname
       echo "matlab -nodisplay -r \"$f(\$i)\"" >> <mark>$fna∎e</mark>
```

```
d:\code\_SBATCH\BLUEBEAR_guide_2\my_script.m - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
my_script.m 🗵
       % Function
     □function my script(i)
  5
       tSubjects = { 'KF15', 'ZW01', 'EE78', 'KJ14', 'WQ20', 'DF10'};
       fprintf(1, 'Processing ... %s\n', tSubjects{i});
 10
       end % end
 11
 13
```

**Step 4**: Use command "bash SB\_RUN.sh" to launch script for all subjects.



**Step 5**: After some time (when resources on Bluebear become available) two output files (per subject) will be created in the script folder: \*.out and \*.stats.

×

100 %

In this example, "slurm-6188956.out" contains MATLAB script output and "slurm-6188956.stats" some extra info.

