Operating Systems
Lab 3

BASH Shell Functionalities
1. Run all the commands discussed in the pdf bash_shell.pdf

Process
2. Write a C program to print the addresses of argc, argv, global initialized and uninitialized variables, local variables, main function and other called functions. Analyse the addresses so as to decide in which section of the process control block they belong to.
3. Write a C program to show the use of setenv(), putenv(), and getenv() functions in case of dealing with environment variables. Help of Internet may be taken.
4. Analyse the case of buffer overflow in C program.

I/O Redirection
Analyse the output of the following commands:

5. Cat 2> file7 0<file8 1>file9
What will happen if file8 does not exist?

6. cat file10 1>file11 2>file12
What will happen if file10 does not exist?

7. cat file13 file14 file15 1>file16 2>file16
What will happen if only file13 exists?

8. cat file17 file20   1>>file18 2>>file18
What will happen if only file17 exists?