UNIX - Writeup

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IBM18CS046
UNIX-LAB -Test-2
31/12/2020

5 a) Program:

```
 #include <iostdio.h>
 #include <unistd.h>
 # include <fcntl.h>
 # include <sys /stat.h>
 # include<sys /types.h>
 int main (int argc ,char *argv[])
 {
     struct stat .statv;
     int i;
     for (i=0; i< argc ; i++)
     {
         if (lstat (argv[i] ,&statv)==1)
         {
             printf("%s is invalid file \n", argv[i]);
             continue ;
         }
         if (S_ISDIR(statv.stmode))
             printf ("%s is a directory file\n", argv[i]);
         else if(S_ISREG (statv.st_mode))
             printf ("%s is a regular file \n", argv[i]);
```

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```
else if (S_ISBLK (statv.st_mode))
      printf("%s is a block device file\n", argv[i]);
else if (S_ISCHAR (statv.st_mode))
      printf("%s is a character device file\n", argv[i]);
else if (S_ISFIFO(statv.st_mode))
      printf("%s is a fifo file \n", argv[i]);
else if (S_ISLNK(statv.st_mode))
      printf("% is a symbolic link \n", argv[i]);
}
return 0;
}
```

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5 b) Program :

```
#include <stdio.h>
# include < sys /wait.h>
# include <unistd .h>
int main()
{
        int wstatus;
        if (fork () ==0)
        {
                printf ("In the child process \n");
                printf("Files in the current directory are : \n" );
                char* args [] = {"-la", NULL};
                execv ("/bin/ls", args),
        }
        else
        {
                printf("Int the parent process\n");
                wait(&wstatus);
                printf(" Back in the parent process!\n");
                printf(" Child exited with exit status %d\n', WEXITSTATUS
                        (wstatus));
        }
        return 0;
}
```

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