## **Activity 4**

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1. ทำการแก้ไข main ให้มีการรับ argument จากผู้ใช้ และนำไปใช้ใน execvp ต่อ

```
int main()
{
  pid_t pid;
  char *av[] = {"cal", "3", "2021", (char *)0};
  pid = fork();
  if (pid < 0)
  {
     printf("Error : cannot fork\n");
     exit(1);
  }
  else if (pid == 0)
  {
     execvp("cal", av);
  }
  else
  {
     wait(NULL);
     return (0);
  }
}</pre>
```

```
thor@ubuntu:/Users/titor/Chula/3-2/2110313-OS-SYS-PROG/Activity4/q1$

titor@ubuntu:/Users/titor/Chula/3-2/2110313-OS-SYS-PROG/Activity4/q1$ cat soli.c

#include catdio.ho

#include catdi
```

```
int main(int argc, char *argv[])
{
    if (argc < 2)
    {
        printf("Please enter UNIX command\n");
        exit(1);
    }

    pid_t pid;
    pid = fork();

    if (pid < 0)
    {
        perror("Error: cannot fork\n");
        exit(1);
    }
    else if (pid == 0)
    {
        execvp(argv[1], &argv[1]);
        // If execvp fails, it will reach here
        perror("Error executing command");
        exit(1);
    }
    else
    {
        wait(NULL);
        return 0;
    }
}</pre>
```

2. Similar to Q1, I check if proc is child and execvp and also check on parent whether if command is exit so it call exit directly on parent and break the while loop.

```
. .
#include <stdio.h>
  while (run)
     printf("mysh >");
char delim[] = " \t\n";
     char **tokens;
char string[256];
     int numtokens;
     int i;
fgets(string, 256, stdin);
numtokens = tokenize(string, delim, &tokens);
if (strcmp(tokens[0], "exit") == 0)
       run = 0;
return 0;
     pid_t pid;
      if (pid < 0)
        perror("Error: cannot fork\n");
        perror("Error executing command");
```

```
→ q2 ./q2

mysh >cal 2 2022

February 2022

Su Mo Tu We Th Fr Sa

1 2 3 4 5

6 7 8 9 10 11 12

13 14 15 16 17 18 19

20 21 22 23 24 25 26

27 28

mysh >ls
output q2 q2.c sol2.c

mysh >
```