Name: ibraheem Qasim

Sap id: 42896

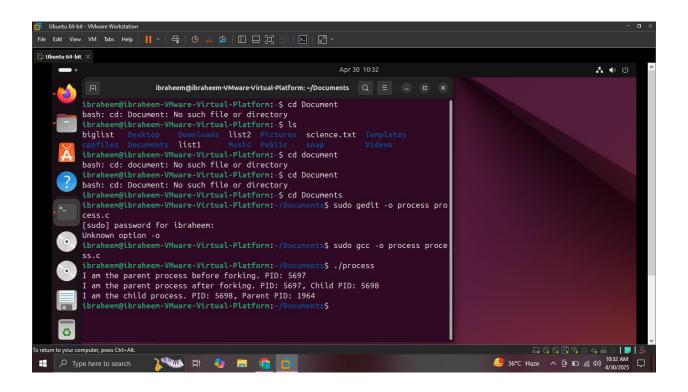
Section: bscs 5

Lab task 7

Task 1

```
Ubuntu 64-bit - VMware Workstation
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                                                                  process.c
           Open ∨ →
                                    process.c
              int pid;
              printf("I am the parent process before forking. PID: %d\n", getpid());
              pid = fork();
              if (pid < 0) {
                  // Error occurred during fork
                  perror("fork failed");
                  return 1;
              } else if (pid == 0) {
                  // Child process
                  printf("I am the child process. PID: %d, Parent PID: %d \n", getpid(), getppid());\\
                  // Parent process
                  printf("I am the parent process after forking. PID: %d, Child PID: %d\n", getpid(), pid);
              return 0;
```

Output



Task 2

Code

```
Ubuntu 64-bit - VMware Workstation
🕟 Ubuntu 64-bit 🛛
                                                                        Process.c
            Open V 🗐
                                                                                                                         process.c
                                                                                                         Process.c
           #include <stdio.h>
           #include <unistd.h>
            int main() {
                printf("PID \  \, \%d: \  \, Here \  \, I \  \, am \  \, just \  \, before \  \, first \  \, forking \  \, statement \verb|\| n \  \, ", \  \, getpid());
                pid_t pid1 = fork();
                if (pid1 == -1) {
                   perror("First fork failed");
                    return 1;
               printf("PID %d: Here I am just after first forking statement\n", getpid());
                pid_t pid2 = fork();
                if (pid2 == -1) {
                    perror("Second fork failed");
                    return 1;
o direct input to this VM, click inside or press Ctrl+G.
                                                                                                            🔣 🔎 Type here to search
```

```
Ubuntu 64-bit - VMware Workstation
           Open ∨ 🕞
                                                                     Process.c 
~/Documents
                                                                                                                   Process.c
                                     process.c
           #include <stdio.h>
           #include <unistd.h>
           int main() {
               printf("PID \ \%d: \ Here \ I \ am \ just \ before \ first \ forking \ statement \verb|\n", getpid());
               pid_t pid1 = fork();
               if (pid1 == -1) {
                  perror("First fork failed");
                   return 1;
               printf("PID %d: Here I am just after first forking statement \n", getpid());
               pid_t pid2 = fork();
               if (pid2 == -1) {
    perror("Second fork failed");
                   return 1;
                                                                                                      # \mathcal{P} Type here to search \mathcal{P}
```

Output:

