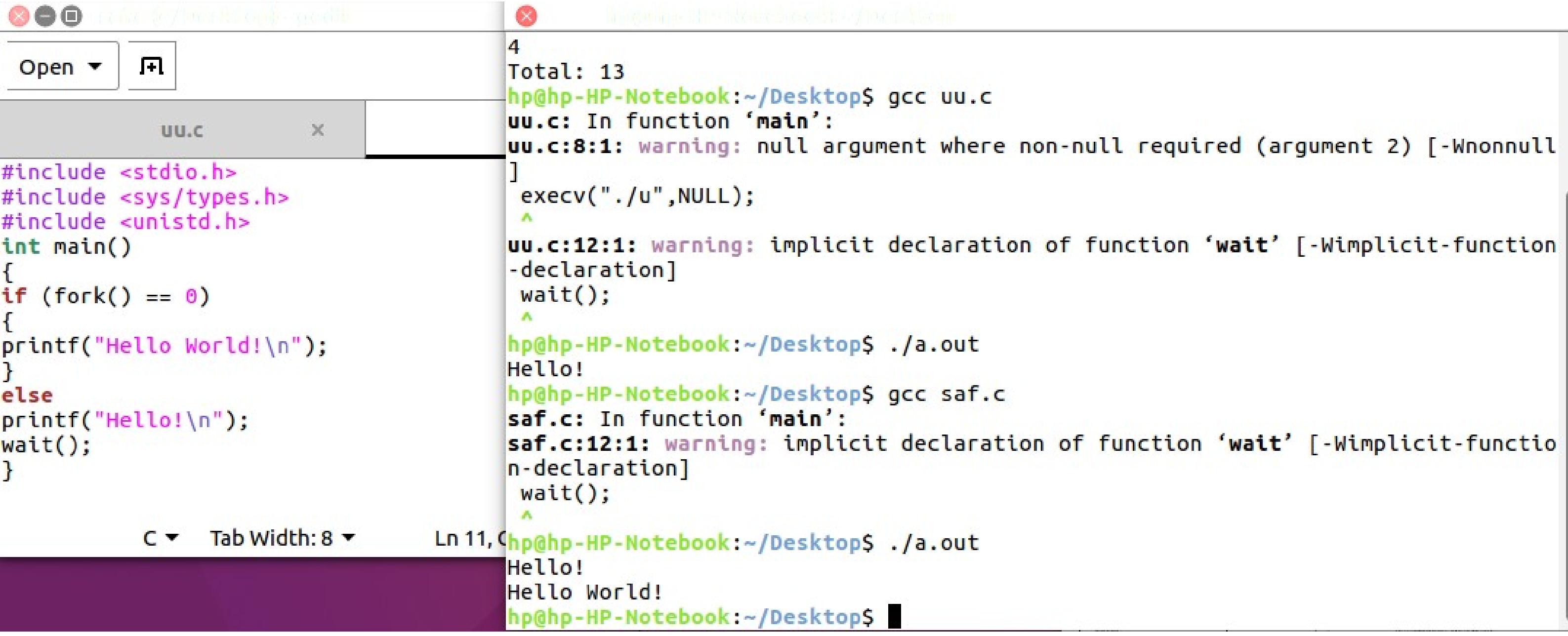
SWE4009- LINUX PROGRAMMING
LAB ASSIGNMENT -8
17MIS1028
ANJANA P

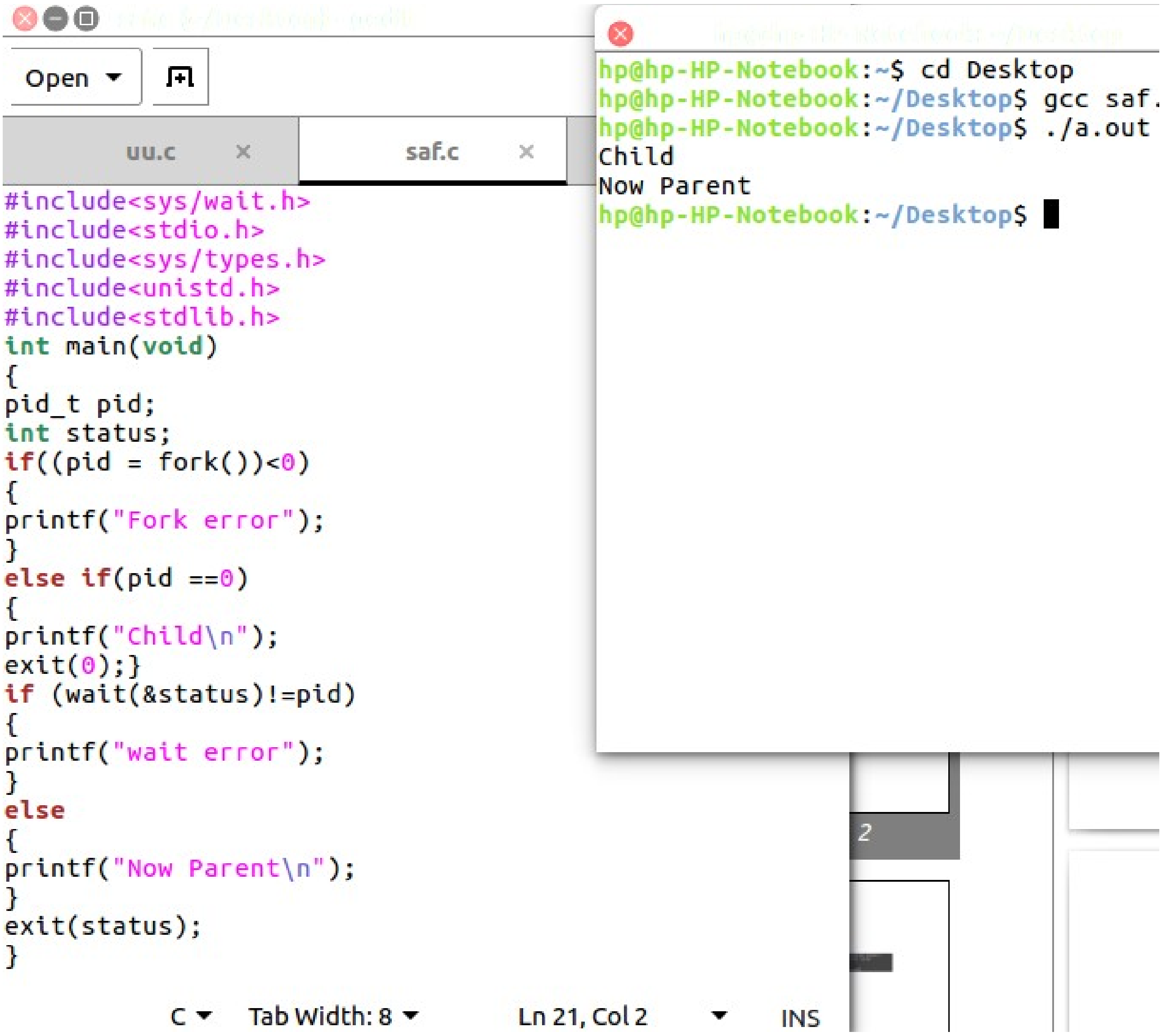
1.) SCREENSHOT:



```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{
if (fork() == 0)
{
printf("Hello World!\n");
}
else
printf("Hello!\n");
wait();
}
```

```
4
Total: 13
hp@hp-HP-Notebook:~/Desktop$ gcc uu.c
uu.c: In function ‘main’:
uu.c:8:1: warning: null argument where non-null required (argument 2) [-Wnonnull
]
 execv("./u",NULL);
 ^
uu.c:12:1: warning: implicit declaration of function ‘wait’ [-Wimplicit-function
-declaration]
 wait();
 ^
hp@hp-HP-Notebook:~/Desktop$ ./a.out
Hello!
hp@hp-HP-Notebook:~/Desktop$ gcc saf.c
saf.c: In function ‘main’:
saf.c:12:1: warning: implicit declaration of function ‘wait’ [-Wimplicit-functio
n-declaration]
 wait();
 ^
hp@hp-HP-Notebook:~/Desktop$ ./a.out
Hello!
Hello World!
hp@hp-HP-Notebook:~/Desktop$
```

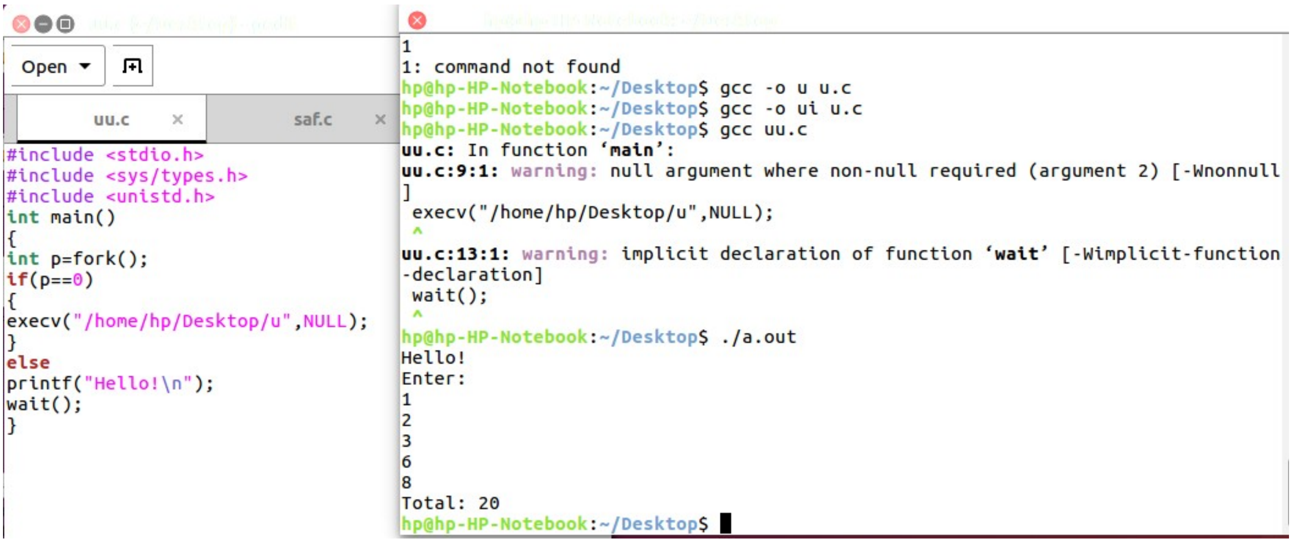
2.) SCREENSHOT:



```
#include<sys/wait.h>
#include<stdio.h>
#include<sys/types.h>
#include<unistd.h>
#include<stdlib.h>
int main(void)
{
pid_t pid;
int status;
if((pid = fork())<0)
{
printf("Fork error");
}
else if(pid ==0)
{
printf("Child\n");
exit(0);}
if (wait(&status)!=pid)
{
printf("wait error");
}
else
{
printf("Now Parent\n");
}
exit(status);
}
```

```
hp@hp-HP-Notebook:~$ cd Desktop
hp@hp-HP-Notebook:~/Desktop$ gcc saf.
hp@hp-HP-Notebook:~/Desktop$ ./a.out
Child
Now Parent
hp@hp-HP-Notebook:~/Desktop$
```

3.) SCREENSHOT:



```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
int main()
{
int p=fork();
if(p==0)
{
execv("/home/hp/Desktop/u",NULL);
}
else
printf("Hello!\n");
wait();
}
```

```
1
1: command not found
hp@hp-HP-Notebook:~/Desktop$ gcc -o u u.c
hp@hp-HP-Notebook:~/Desktop$ gcc -o ui u.c
hp@hp-HP-Notebook:~/Desktop$ gcc uu.c
uu.c: In function ‘main’:
uu.c:9:1: warning: null argument where non-null required (argument 2) [-Wnonnull
]
 execv("/home/hp/Desktop/u",NULL);
 ^
uu.c:13:1: warning: implicit declaration of function ‘wait’ [-Wimplicit-function
-declaration]
 wait();
 ^
hp@hp-HP-Notebook:~/Desktop$ ./a.out
Hello!
Enter:
1
2
3
6
8
Total: 20
hp@hp-HP-Notebook:~/Desktop$ 
```