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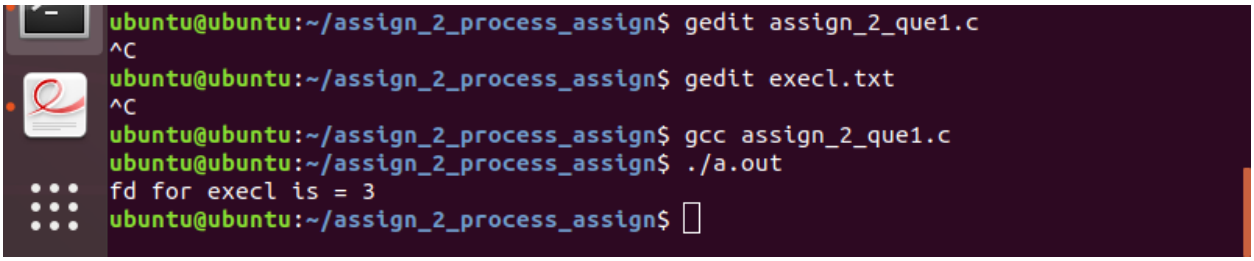
ASSIGNMENT 2 (PROCESS ASSUGNMENT)

QUE : 1

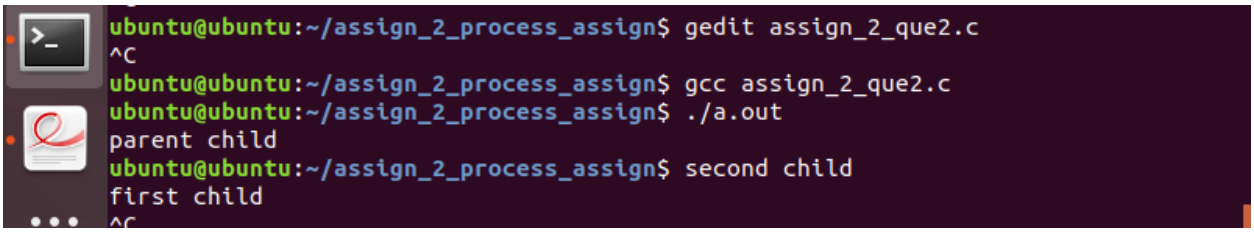
```
#include<stdio.h>
#include<fcntl.h>
#include<unistd.h>
int main()
{
int fd;
fd=open("execl.txt",O_RDONLY,777);
printf("fd for execl is = %d\n",fd);
close(fd);
return 0;
}
```



QUE : 2

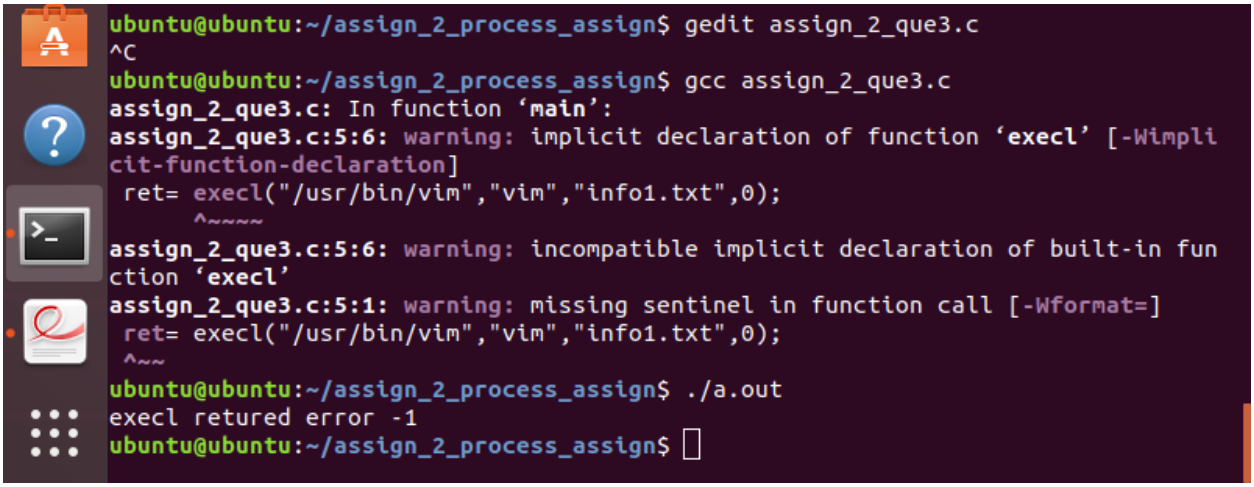
```
#include<stdio.h>
#include<unistd.h>
#include<stdlib.h>
int main()
{
int pid_1,pid_2;
pid_1=fork();
if(pid_1==0)
{
printf("first child\n");
}
else
{
pid_2=fork();
if(pid_2==0)
{
printf("second child\n");
}
```

```
else
{
printf("parent child\n");}
}
return 0;
}
```



QUE : 3

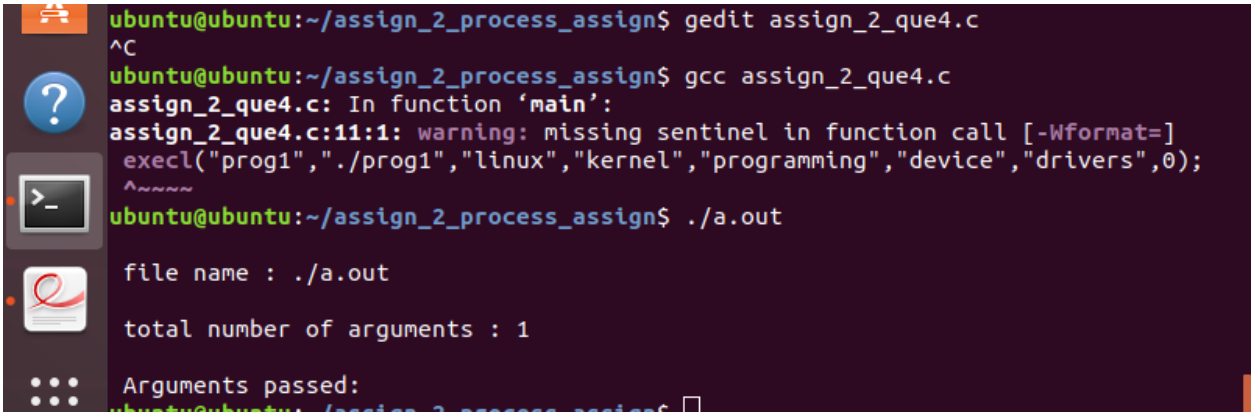
```
#include<stdio.h>
int main()
{
int ret;
ret= execl("/usr/bin/vim","vim","info1.txt",0);
if(ret==-1)
{
printf("execl retured error %d\n",ret);
}
}
```



QUE : 4

```
#include<stdio.h>
#include<unistd.h>
#include<stdlib.h>
#include<sys/types.h>
#include<sys/wait.h>
```

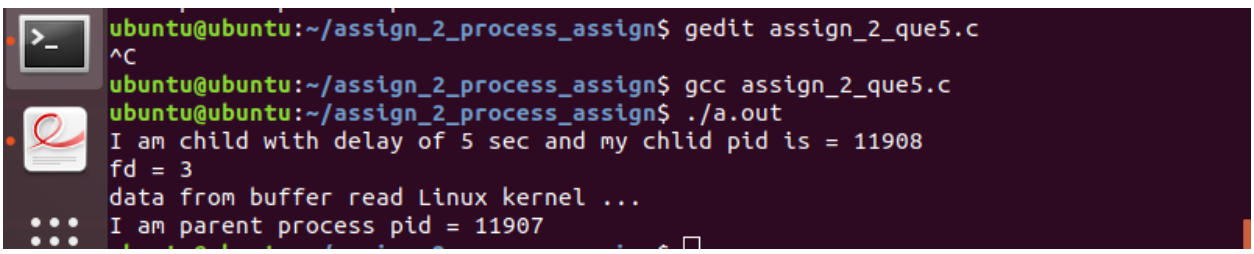
```
int main(int argc,char *argv[])
{
int i;
printf("\n file name : %s\n",argv[0]);
printf("\n total number of arguments : %d\n",argc);
execl("prog1","./prog1","linux","kernel","programming","device","drivers",0);
printf("\n Arguments passed: ");
for(i=1;i<argc;i++)
{
printf("%s",argv[i]);}
printf("\n");
return 0;
}
```



QUE : 5

```
#include<stdio.h>
#include<fcntl.h>
#include<unistd.h>
#include<sys/types.h>
#include<sys/wait.h>
int main()
{
int fd;
int len;
char write_buf[60]="Linux kernel ...";
char read_bf[60];
pid_t pid;
pid=fork();
if(pid==0)
{
sleep(5);
printf("I am child with delay of 5 sec and my chlid pid is = %d\n",getpid());
fd = open("program_5.txt",O_CREAT|O_RDWR,777);
```

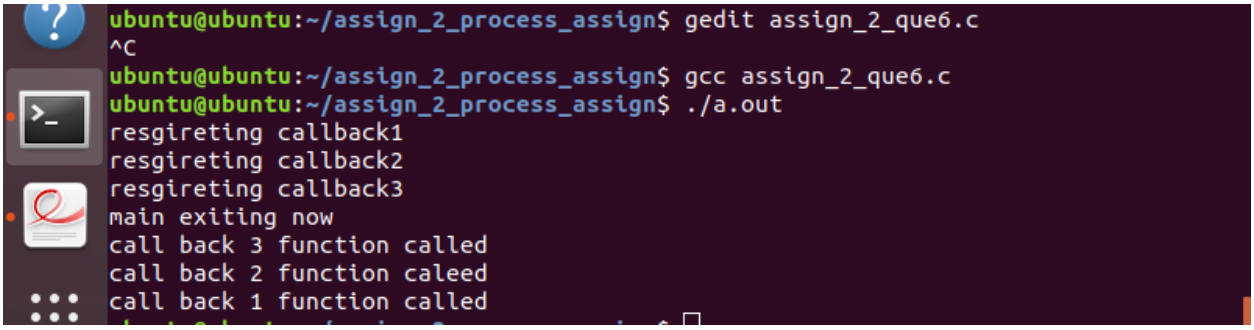
```
printf("fd = %d\n",fd);
if(fd>0)
{
len=write(fd,write_buf,60);
}
else
{
printf("Error..........\n");}
//printf("return value from write %d\n",len);
lseek(fd,0,SEEK_SET);
read(fd,read_bf,len);
printf("data from buffer read %s\n",read_bf);
}
else
{
wait(0);
printf("I am parent process pid = %d\n",getpid());
}
close(fd);
return 0;
}
```



QUE : 6

```
#include<stdio.h>
#include<unistd.h>
#include<stdlib.h>
void callback1(void)
{
printf("call back 1 function called \n");
}
void callback2(void)
{
printf("call back 2 function caleed \n");
}
void callback3(void)
{
printf("call back 3 function called \n");
}
int main()
```

```
{
printf("resgireting callback1\n");
atexit(callback1);
printf("resgireting callback2\n");
atexit(callback2);
printf("resgireting callback3\n");atexit(callback3);
printf("main exiting now\n");
exit(0);
}
```



QUE : 7

```
#include<stdio.h>
#include<unistd.h>
#include<sys/wait.h>
int main()
{
pid_t pid1;
pid1=fork();
if(pid1==0)
{

sleep(5);
printf("I am child = %d \n",getpid());
}
else
{
int pid2;
pid2=wait(0);
printf("I am parent process pro pid = %d ",getpid());
}
}
```