

Practical 4

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Code:

1)rmdir

```
#include<stdio.h>

#include<sys/stat.h>

#include<sys/types.h>

#include<stdlib.h>

int main(int argc,char*argv[]){

for(int i=1;i<=3;i++)

{

int f=rmdir(argv[i],0777);

if(f== -1)

{

printf("\nDirectory doesn't exist\n");

exit(-1);

}

else

printf("\nDirctory with name [%s] Removed\n",argv[i]);

}

}
```

2)mkdir

```
#include<stdio.h>

#include<sys/stat.h>

#include<sys/types.h>

#include<stdlib.h>

int main(int argc,char*argv[])
```

```

{
int f;
for(int i=1;i<=3;i++)
{
f=mkdir(argv[i],0777);
if(f==-1)
{
printf("\nCannot create a directory\n");
exit(-1);
}
else
printf("\nDirctory with name [%s] created\n",argv[i]);
printf("argc:%d\n",argc);
printf("argv:%s\n",argv[i]);
}
}

```

3)Cd

```

#include<stdio.h>
#include<sys/stat.h>
#include<sys/types.h>
#include<stdlib.h>
#include<unistd.h>
#include<errno.h>
#include<dirent.h>
#define NAME_MAX 100
int main(int argc,char *argv[]){
char buff[NAME_MAX];
char*path=argv[1];
if(chdir(path)==-1)
{
fprintf(stderr,"Error:Couldn't change to directory %s\n",path);
return 1;
}
getcwd(buff,NAME_MAX);
printf("CWD is:%s\n",buff);
return 0;
}

```

4)Cwd

```

#include<stdio.h>
#include<sys/stat.h>
#include<sys/types.h>
#include<stdlib.h>
#include<unistd.h>
#include<errno.h>
#include<dirent.h>
void main(int argc,char *argv[]){
char cwd[1024];

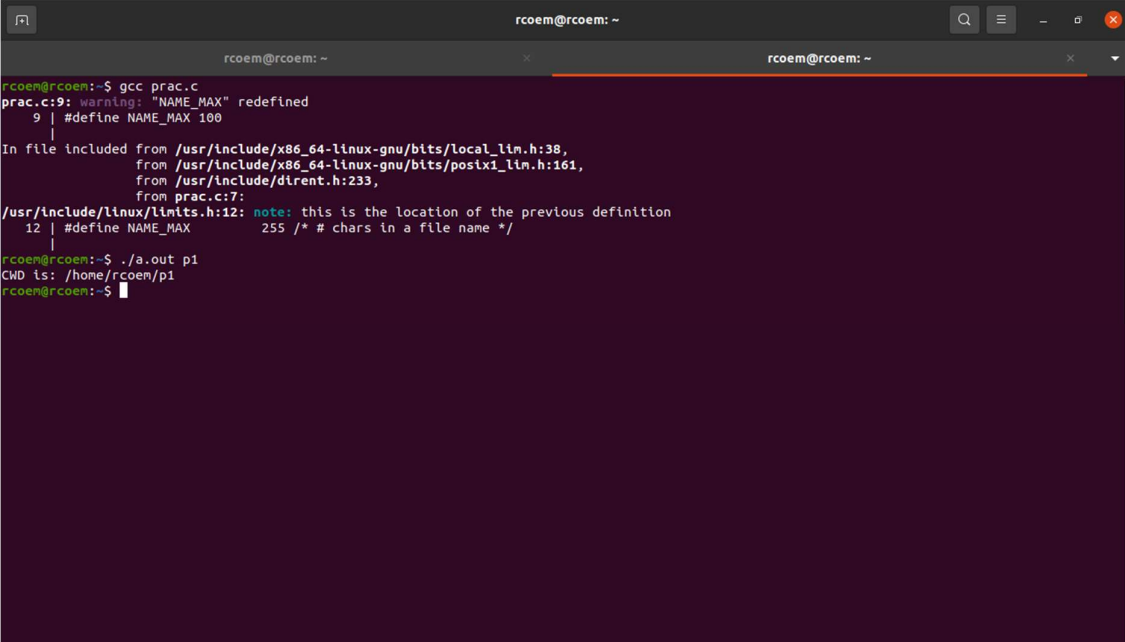
```

```

DIR *p;
struct dirent *d;
if(getcwd(cwd,sizeof(cwd))!=NULL){
fprintf(stdout,"Current Working Directory:%s\n",cwd);
}
else{
perror("getwd() error");
}
p=opendir(cwd);
if(p==NULL){
perror("Cannot Find Directory");
exit(-1);
}
while(d=readdir(p))
{
printf("%s\t\n",d->d_name);
}
}
}

```

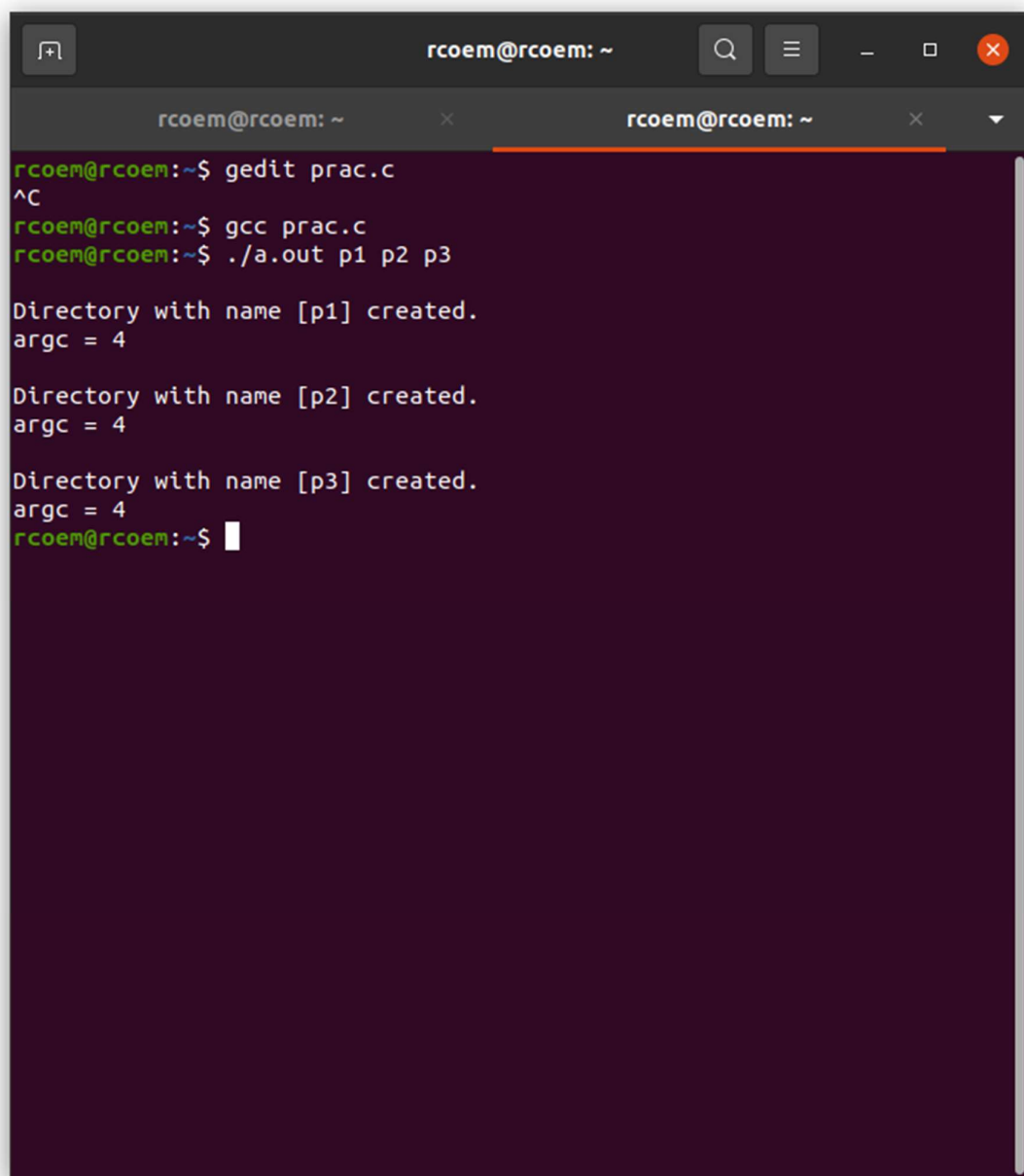
Output:



```

rcoem@rcoem: ~
rcoem@rcoem: ~
rcoem@rcoem: ~
rcoem@rcoem: ~$ gcc prac.c
prac.c:9: warning: "NAME_MAX" redefined
   9 | #define NAME_MAX 100
     |
In file included from /usr/include/x86_64-linux-gnu/bits/local_lim.h:38,
                 from /usr/include/x86_64-linux-gnu/bits/posix1_lim.h:161,
                 from /usr/include/dirent.h:233,
                 from prac.c:7:
/usr/include/linux/limits.h:12: note: this is the location of the previous definition
   12 | #define NAME_MAX      255 /* # chars in a file name */
     |
rcoem@rcoem: ~$ ./a.out p1
CWD is: /home/rcoem/p1
rcoem@rcoem: ~$

```



A terminal window titled "rcoem@rcoem: ~" with standard window controls. The terminal shows a C program being executed. The user runs "gedit prac.c", presses Ctrl-C, then "gcc prac.c", and finally "./a.out p1 p2 p3". The program outputs three lines: "Directory with name [p1] created. argc = 4", "Directory with name [p2] created. argc = 4", and "Directory with name [p3] created. argc = 4". The prompt "rcoem@rcoem:~\$" is visible at the bottom with a cursor.

```
rcoem@rcoem:~$ gedit prac.c
^C
rcoem@rcoem:~$ gcc prac.c
rcoem@rcoem:~$ ./a.out p1 p2 p3

Directory with name [p1] created.
argc = 4

Directory with name [p2] created.
argc = 4

Directory with name [p3] created.
argc = 4
rcoem@rcoem:~$
```

```
rcoem@rcoem: ~  
rcoem@rcoem: ~  
rcoem@rcoem:~$ gedit prac.c  
^C  
rcoem@rcoem:~$ gcc prac.c  
rcoem@rcoem:~$ ./a.out p1  
Current Working Directory/home/rcoem  
xyz1.c  
pr3.c  
pr31.c  
.profile  
.bashrc  
practical.out  
rahu1  
scr.sh  
shell.sh  
Pictures  
nikhil.c  
practical.c  
.config  
csp255_B03  
w1.txt  
prac.c  
PRCT7.c  
.bash_logout  
prac7.c  
new41  
a.c  
p3  
.cache  
.ssh  
A-71  
-gt  
.thunderbird  
:  
server.c  
Documents  
a.out
```