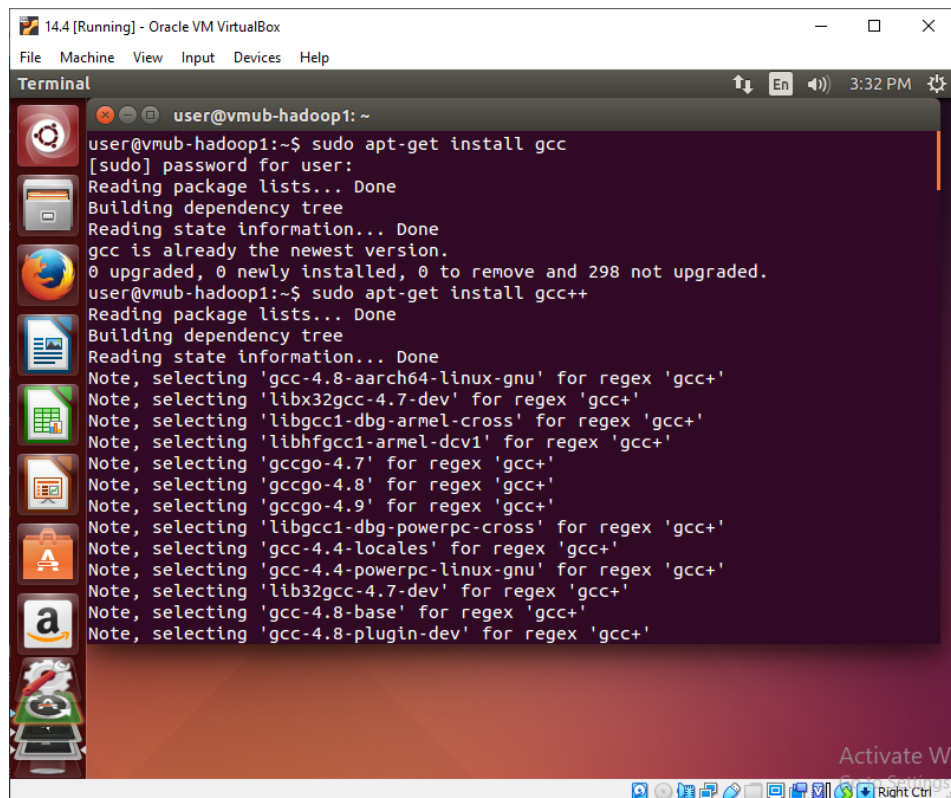


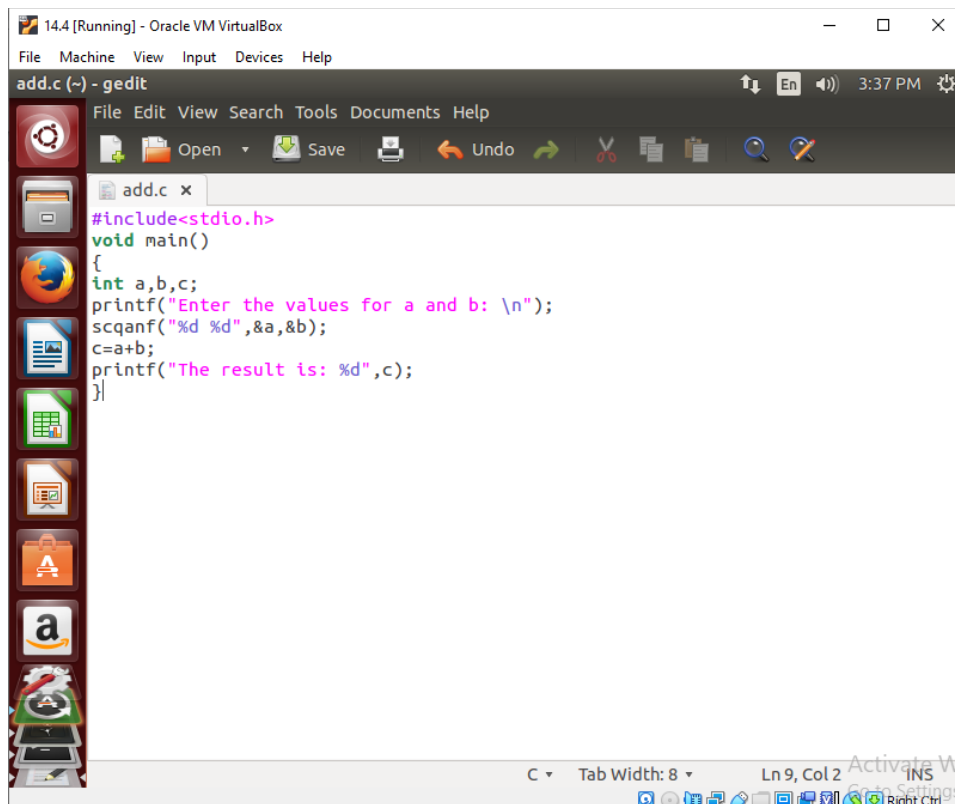
## Exercise : 4

### Installing C compiler on Guest OS

#### Screenshots:



```
14.4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Terminal
user@vmub-hadoop1: ~
user@vmub-hadoop1:~$ sudo apt-get install gcc
[sudo] password for user:
Reading package lists... Done
Building dependency tree
Reading state information... Done
gcc is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 298 not upgraded.
user@vmub-hadoop1:~$ sudo apt-get install gcc++
Reading package lists... Done
Building dependency tree
Reading state information... Done
Note, selecting 'gcc-4.8-aarch64-linux-gnu' for regex 'gcc+'
Note, selecting 'libx32gcc-4.7-dev' for regex 'gcc+'
Note, selecting 'libgcc1-dbg-armel-cross' for regex 'gcc+'
Note, selecting 'libhfgcc1-armel-dcv1' for regex 'gcc+'
Note, selecting 'gccgo-4.7' for regex 'gcc+'
Note, selecting 'gccgo-4.8' for regex 'gcc+'
Note, selecting 'gccgo-4.9' for regex 'gcc+'
Note, selecting 'libgcc1-dbg-powerpc-cross' for regex 'gcc+'
Note, selecting 'gcc-4.4-locales' for regex 'gcc+'
Note, selecting 'gcc-4.4-powerpc-linux-gnu' for regex 'gcc+'
Note, selecting 'lib32gcc-4.7-dev' for regex 'gcc+'
Note, selecting 'gcc-4.8-base' for regex 'gcc+'
Note, selecting 'gcc-4.8-plugin-dev' for regex 'gcc+'
Activate Wi-Fi
Right Ctrl
```



```
14.4 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
add.c (~) - gedit
File Edit View Search Tools Documents Help
add.c x
#include<stdio.h>
void main()
{
int a,b,c;
printf("Enter the values for a and b: \n");
scanf("%d %d",&a,&b);
c=a+b;
printf("The result is: %d",c);
}
```

14.4 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
user@vmub-hadoop1: ~  
user@vmub-hadoop1:~$ gcc add.c  
/tmp/ccUwkoo3.o: In function 'main':  
add.c:(.text+0x28): undefined reference to 'scanf'  
collect2: error: ld returned 1 exit status  
user@vmub-hadoop1:~$ gcc add.c  
user@vmub-hadoop1:~$ ./a.out  
Enter the values for a and b:  
10 10  
The result is: 20user@vmub-hadoop1:~$
```

Tab Width: 8 Ln 6, Col 3

14.4 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

arm.c (~) - gedit

File Edit View Search Tools Documents Help

Open Save Undo Redo

add.c x arm.c x

```
#include<stdio.h>  
void main()  
{  
int n,r,sum=0,temp;  
printf("Enter the number = \n");  
scanf("%d",&n);  
temp=n;  
while(n>0)  
{  
r=n%10;  
sum=sum+(r*r*r);  
n=n/10;  
}  
if(temp==sum)  
printf("amstrong number");  
else  
printf("not amstrong number");  
}
```

Tab Width: 8 Ln 18, Col 2

14.4 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal

```
user@vmub-hadoop1: ~
10 10
The result is: 20user@vmub-hadoop1:~$ sudo gedit arm.c
[sudo] password for user:
user@vmub-hadoop1:~$ sudo gedit arm.c
user@vmub-hadoop1:~$ gcc arm.c
gcc: error: arm.c: No such file or directory
gcc: fatal error: no input files
compilation terminated.
user@vmub-hadoop1:~$ sudo gedit arm.c
user@vmub-hadoop1:~$ gcc arm.c
arm.c: In function 'main':
arm.c:6:13: error: 'a' undeclared (first use in this function)
scanf("%d",&a);
               ^
arm.c:6:13: note: each undeclared identifier is reported only once for each function it appears in
user@vmub-hadoop1:~$ gcc arm.c
user@vmub-hadoop1:~$ ./a.out
Enter the number =
153
amstrong numberuser@vmub-hadoop1:~$ ./a.out
Enter the number =
150
not amstrong numberuser@vmub-hadoop1:~$
```

C Tab Width: 8 Ln 6, Col 14 INS Right Ctrl

14.4 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

odd.c (~) - gedit

File Edit View Search Tools Documents Help

add.c x arm.c x odd.c x

```
#include<stdio.h>
void main()
{
int num;
printf("Enter the number = \n");
scanf("%d",&num);

if(num%2==0)
printf("%d is an even number",num);
else
printf("%d is an odd number",num);
}
```

C Tab Width: 8 Ln 11, Col 41 INS Right Ctrl

14.4 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Terminal 3:47 PM

```
user@vmub-hadoop1: ~
compilation terminated.
user@vmub-hadoop1:~$ sudo gedit arm.c
user@vmub-hadoop1:~$ gcc arm.c
arm.c: In function 'main':
arm.c:6:13: error: 'a' undeclared (first use in this function)
scanf("%d",&a);
            ^
arm.c:6:13: note: each undeclared identifier is reported only once for each function it appears in
user@vmub-hadoop1:~$ gcc arm.c
user@vmub-hadoop1:~$ ./a.out
Enter the number =
153
amstrong numberuser@vmub-hadoop1:~$ ./a.out
Enter the number =
150
not amstrong numberuser@vmub-hadoop1:~$ gcc odd.c
user@vmub-hadoop1:~$ ./a.out
Enter the number =
5
5 is an odd numberuser@vmub-hadoop1:~$ ./a.out
Enter the number =
10
10 is an even numberuser@vmub-hadoop1:~$
```

C Tab Width: 8 Ln 11, Col 41

Activate Windows  
Go to Settings to activate Windows.