

## Practical No:-7

Roll No:-65

### INPUT:

/\*Write c++ program to draw man walking in the rain with an umbrella.

Apply the concept of polymorphism.\*/

```
#include<iostream>
#include<graphics.h>
#include<stdlib.h>
using namespace std;
class walkingman
{
int rhx,rhy;
public:
void draw(int,int);
void draw(int);
};

void walkingman::draw(int i)
{
line(20,380,580,380);
if(i%2)
{

}
else
{

}
line(25+i,380,35+i,340);
line(45+i,380,35+i,340);
line(35+i,310,25+i,330);
delay(20);

line(35+i,340,35+i,310);
line(35+i,310,40+i,330);
delay(20);
```

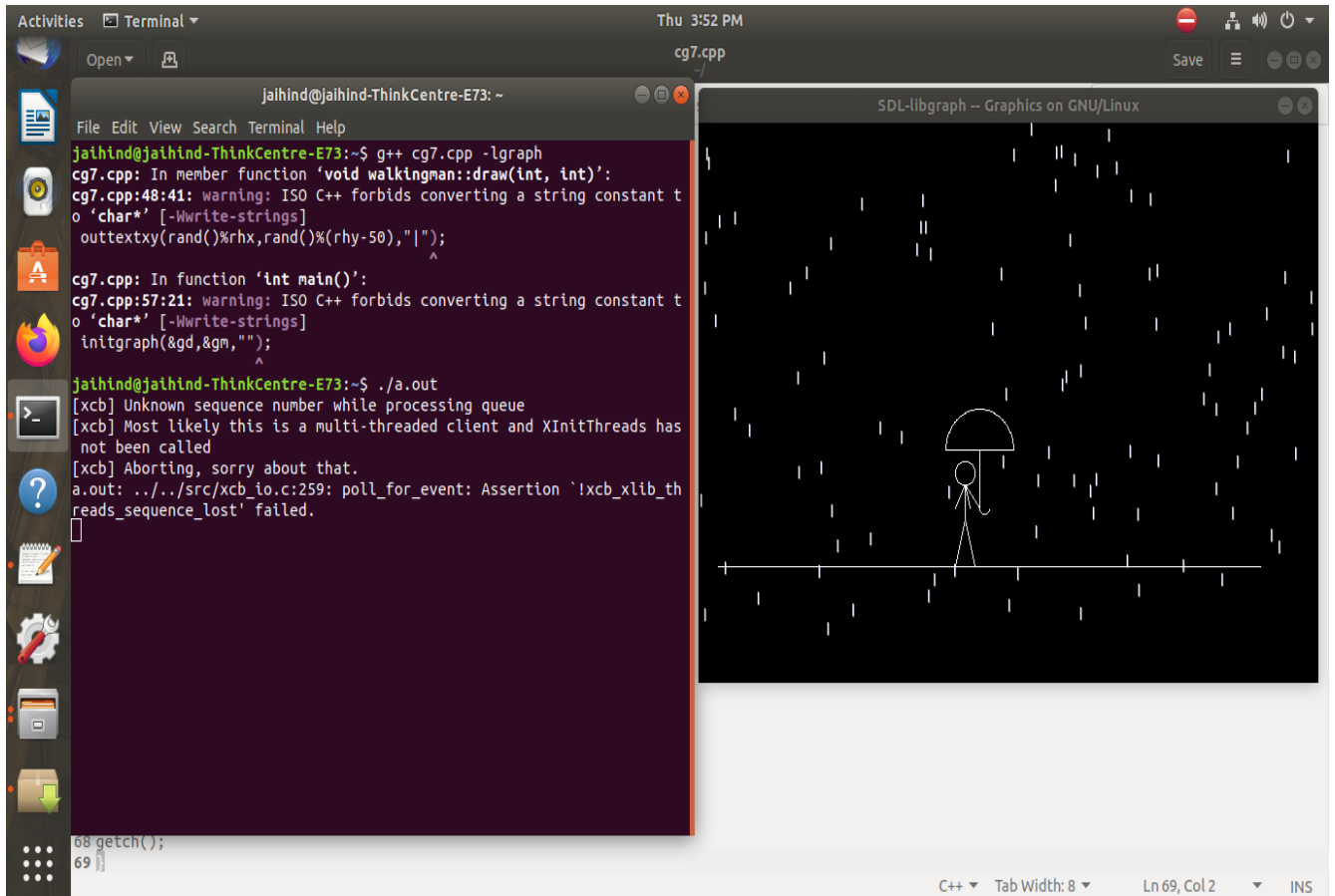
```

line(35+i,340,35+i,310);
circle(35+i,300,10);
line(35+i,310,50+i,330);
line(50+i,330,50+i,280);
line(15+i,280,85+i,280);
arc(50+i,280,180,0,35);
arc(55+i,330,360,180,5);
}
void walkingman::draw(int x,int y)
{
int j;
rhx=x;
rhy=y;
for
(j=0;j<100;j++)
{
outtextxy(rand()%rhx,rand()%(rhy-50),"|");
setcolor(WHITE);
}
}
int main()
{
int gd=DETECT,gm;
int rhx,rhy,j,i;
walkingman obj;
initgraph(&gd,&gm,"");

for(i=0;i<500;i++)
{
obj.draw(i);
rhx=getmaxx();
rhy=getmaxy();
obj.draw(rhx,rhy);
delay(150);
cleardevice();
}
getch();
}

```

# OUTPUT:



The screenshot shows a Linux desktop environment with a terminal window and a graphics window. The terminal window displays the compilation and execution of a C++ program named `cg7.cpp`. The program uses `SDL-libgraph` for graphics. The output shows several warnings from the compiler and an assertion failure in the `poll_for_event` function. The graphics window, titled "SDL-libgraph -- Graphics on GNU/Linux", displays a simple rain simulation. A stick figure holding an umbrella is positioned in the center of the screen, and numerous vertical lines represent falling rain.

```
jaihind@jaihind-ThinkCentre-E73: ~  
File Edit View Search Terminal Help  
jaihind@jaihind-ThinkCentre-E73:~$ g++ cg7.cpp -lgraph  
cg7.cpp: In member function 'void walkingman::draw(int, int)':  
cg7.cpp:48:41: warning: ISO C++ forbids converting a string constant to  
      'char*' [-Wwrite-strings]  
      outtextxy(rand()%rhx,rand()%(rhy-50),"|");  
                                     ^  
cg7.cpp: In function 'int main()':  
cg7.cpp:57:21: warning: ISO C++ forbids converting a string constant to  
      'char*' [-Wwrite-strings]  
      initgraph(&gd,&gm,"");  
               ^  
jaihind@jaihind-ThinkCentre-E73:~$ ./a.out  
[xcb] Unknown sequence number while processing queue  
[xcb] Most likely this is a multi-threaded client and XInitThreads has  
      not been called  
[xcb] Aborting, sorry about that.  
a.out: ../../src/xcb_io.c:259: poll_for_event: Assertion '!xcb_xlib_th  
reads_sequence_lost' failed.  
^C  
68 getch();  
69 }
```