ABHAS BHATT
BCA 'A'
1121001
Animation and graphics

Abhas

Q3
Ans3
```
#include<graphics.h>
int main()
{
int gd = DETECT, gm;
initgraph(&gd, &gm, "NULL");
Line(0, 200, getmaxx(), 200);
Line(0, 360, getmaxx(), 360);
SetCOLOR(WHITE);
rectangle(140, 200, 145, 130)
Setcolor(RED);
Circle(142, 82, 6);
floodfill(142, 82, RED);
SetColor(YELLOW);
Circle(142, 100, 6);
floodfill(142, 100, YELLOW);
SetCOLOR(GREEN);
Circle(142, 118, 6);
floodfill(143, 118, GREEN);
SetCOLOR(WHITE);
rectangle(150, 180, 150, 300)
```

ABHAS BHATT
BCA 'A'
1121001

Abhas

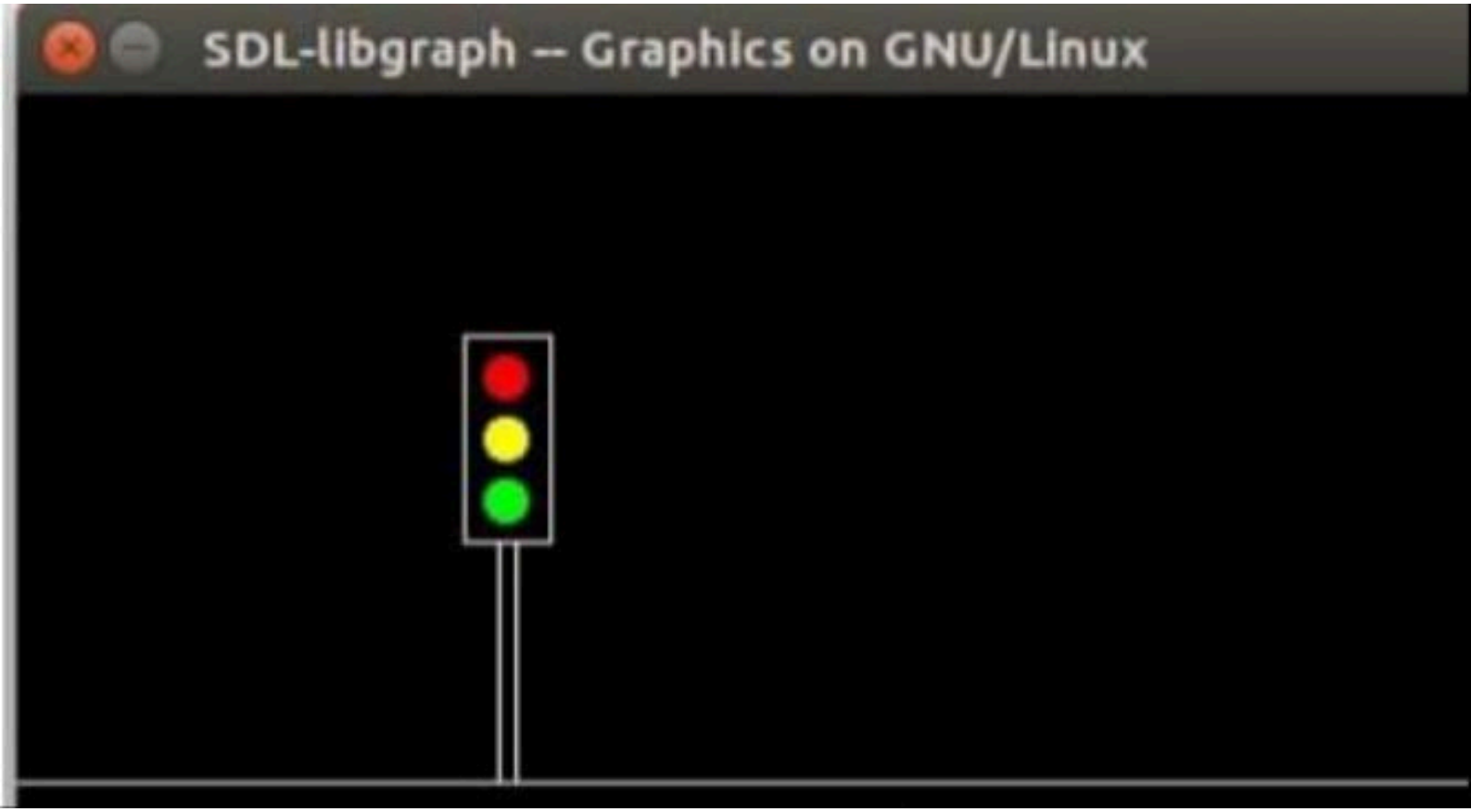
Animation and graphics

Q3

Ans3

```
rectangle (250, 180, 420, 300);
rectangle (180, 250, 220, 300);
Line (200, 100, 150, 180);
Line (200, 100, 250, 180);
Line (200, 100, 370, 100);
Line (370, 100, 420, 180);

SetColor (BROWN);
floodfill (152, 182, WHITE);
floodfill (252, 182, WHITE);
SetColor (LIGHTRED);
```


SDL-libgraph -- Graphics on GNU/Linux

ABHAS BHATT
BCA 'A'
1121001

Abhas

Animation and graphics

Q1

Ans: DDA Algo

Step 1:- Start

Step 2:- DECLARE x_1, y_1, dx, x As integer value
x_2, y_2, dy, y

Step 3:- Enter value x_1, y_1, x_2, y_2

Step 4:- Calculate $dx = x_2 - x_1$
$dy = y_2 - y_1$

Step 5:- if ABS(dx) > ABS(dy) Then Step = abs(dx)
ELSE Step = abs(dy)

Step 6:- $xinc = \frac{dx}{Step}$, $yinc = \frac{dy}{Step}$
Assign $x = x_1$, Assign $y = y_1$

Step 7:- Setpixel (x, y)

Step 8:- $y = y + yinc$ Set pixels (Round (x), Round (y))
$x = x + xinc$

Step 9:- Repeat Step 9 until $x = x_2$

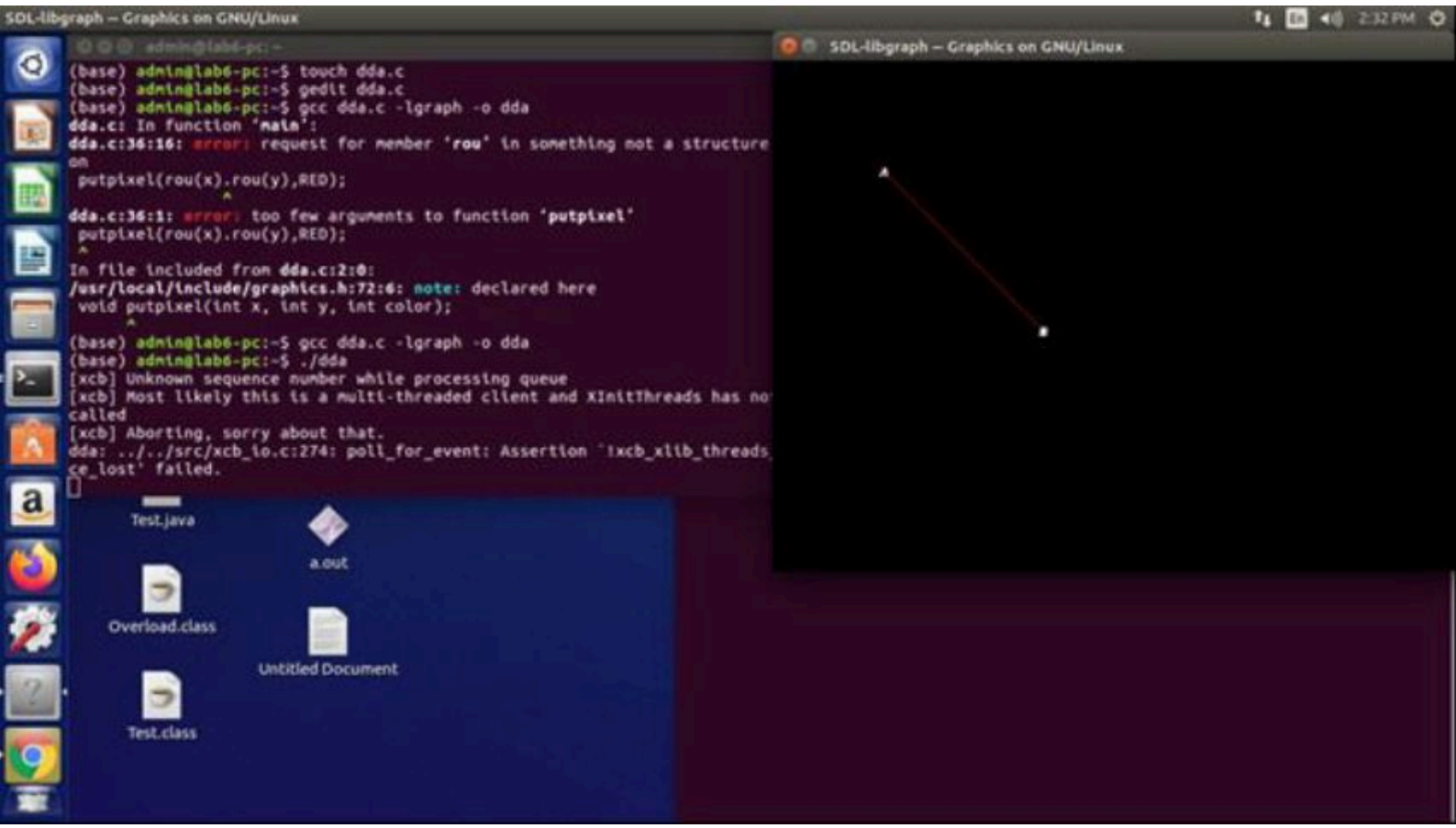
Step 10:- End

ABHAS Bhatt
BCA 'A'
112001
Animation and graphics

Abhas

Q1
Ans) Program

```
#include<graphics.h>
#include<conio.h>
#include<stdio.h>
Void main()
{
  int gd=DETECT,gm,i;
  float x,y,dx,dy,steps;
  int x0,x1,y0,y1;
  initgraph(&gd,&gm,"C:\\TC\\BGI");
  SetBkColor(WHITE);
  x0=100,y0=200,x1=500,y1=300;
  dx=(float)(x1-x0);
  dy=(float)(y1-y0);
  if(dx>=dy)
{
  Step=dx;
}else
{ step=dy;
}
dx=dx/steps;
dy=dy/steps;
x=x0;
 y=y0;
i=1;
while(i<=steps)
 {
  Putpixel(x,y,RED);
  x+=dx;
  y+=dy;
  i=i+1;
}
  getch();
  closegraph();
}
}
```


SDL-libgraph – Graphics on GNU/Linux
2:32 PM
admin@lab6-pc: ~
(base) admin@lab6-pc:~$ touch dda.c
(base) admin@lab6-pc:~$ gedit dda.c
(base) admin@lab6-pc:~$ gcc dda.c -lgraph -o dda
dda.c: In function 'main':
dda.c:36:16: error: request for member 'rou' in something not a structure
on
putpixel(rou(x).rou(y),RED);
^
dda.c:36:1: error: too few arguments to function 'putpixel'
putpixel(rou(x).rou(y),RED);
^
In file included from dda.c:2:0:
/usr/local/include/graphics.h:72:6: note: declared here
void putpixel(int x, int y, int color);
^
(base) admin@lab6-pc:~$ gcc dda.c -lgraph -o dda
(base) admin@lab6-pc:~$ ./dda
[xcb] Unknown sequence number while processing queue
[xcb] Most likely this is a multi-threaded client and XInitThreads has no
called
[xcb] Aborting, sorry about that.
dda: ../../src/xcb_io.c:274: poll_for_event: Assertion '!xcb_xlib_threads
ce_lost' failed.
SDL-libgraph – Graphics on GNU/Linux
Test.java
a.out
Overload.class
Untitled Document
Test.class