



Answer as much as you can:

[1] The errors of the program is:

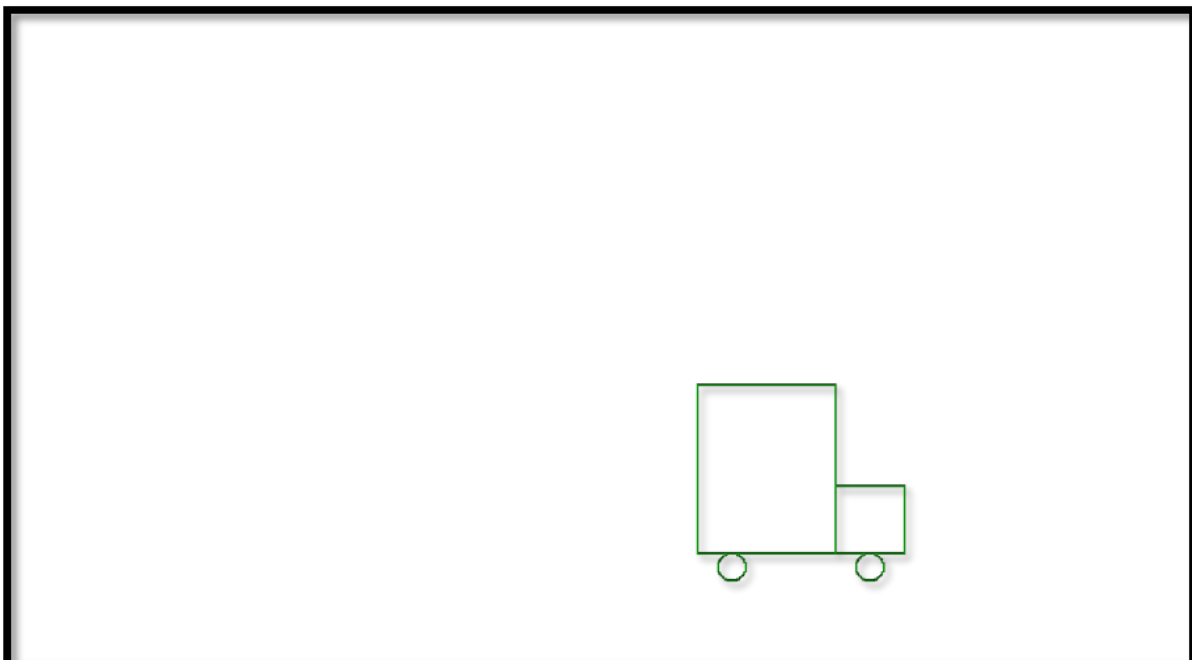
Line #	Incorrect	Correction
1-	/	//
3-	graphic	graphics
6-	conoi	conio
11-	gd	& gd
12-	/2	/2;
13-	/2	/2;
14-	(!kbhit());	(!kbhit())
16-	setcolour	setcolor
19-	::	;
22-	closegraphs	closegraph

20 Marks

[2] The output of the programs is
(A)

In main function: x = 100
In func1: *ptr = 100
In func1: *prt = 200
In main function: x = 200

(B) Car moved from left to right on the computer monitor



20 Marks

[3] C++ program to give the following output.



```
#include<graphics.h>
#include<bitmap.h>
#include<conio.h>
void main()
{
int gd=DETECT, gm;
initgraph(&gd , &gm , "");
setcolor(15);
bar(0,0,640,480);
setcolor(0);
rectangle(190,90,510,410);
for(int y=0;y<100;y++)
{
setcolor(6);
line(200,100+y,500,100+y);
setcolor(15);
line(200,200+y,500,200+y);
setcolor(0);
line(200,300+y,500,300+y);
}
displaybitmap(325,210,"nisr.bmp");
getch();
closegraph();
}
```

15 Marks



[4]

(A) C++ program to draw a circle with center at (320,240) and radius 100, without using circle function in C++.

10 Marks

```
#include<graphics.h>
#include<conio.h>
void main()
{
int gd=DETECT, gm;
initgraph(&gd , &gm , "");
ellipse(320,240,0,360,100,100);
getch();
closegraph();
}
```

(B) C++ program to do a traffic sign simulation. with the predicted output.

```
#include<graphics.h>
#include<conio.h>
#include<dos.h>
#include<stdlib.h>
```

10 Marks

```
main()
{
int gd = DETECT, gm, midx, midy;

initgraph(&gd, &gm, "");

midx = getmaxx()/2;
midy = getmaxy()/2;

setcolor(RED);
settextstyle(Script_FONT, HORIZ_DIR, 3);
settextjustify(CENTER_TEXT, CENTER_TEXT);
outtextxy(midx, midy-10, "Traffic Light Simulation");
outtextxy(midx, midy+10, "Press any key to start");
getch();
cleardevice();
setcolor(WHITE);
settextstyle(DEFAULT_FONT, HORIZ_DIR, 1);
rectangle(midx-30,midy-80,midx+30,midy+80);
circle(midx, midy-50, 22);
setfillstyle(SOLID_FILL,RED);
floodfill(midx, midy-50,WHITE);
```



```
setcolor(BLUE);
outtextxy(midx,midy-50,"STOP");
delay(2000);
graphdefaults();
cleardevice();
setcolor(WHITE);
rectangle(midx-30,midy-80,midx+30,midy+80);
circle(midx, midy, 20);
setfillstyle(SOLID_FILL,YELLOW);
floodfill(midx, midy,WHITE);
setcolor(BLUE);
outtextxy(midx-18,midy-3,"READY");

delay(2000);
cleardevice();
setcolor(WHITE);
rectangle(midx-30,midy-80,midx+30,midy+80);
circle(midx, midy+50, 22);
setfillstyle(SOLID_FILL,GREEN);
floodfill(midx, midy+50,WHITE);
setcolor(BLUE);
outtextxy(midx-7,midy+48,"GO");
setcolor(RED);
settextstyle(SCRIPT_FONT, HORIZ_DIR, 4);
outtextxy(midx-150, midy+100, "Press any key to exit...");

getch();
closegraph();
}
```

The output

