```
#includeconio.h
#includestdio.h
#includegraphics.h
void main()
{
 int gd=DETECT,gm;
 float x,y,xc,yc,rx,ry,pk,pk1;
 clrscr();
 initgraph(&gd,&gm,..bgi);
 printf(Mid point ellipse drawing algorithmn);
 printf(Enter Center for ellipsenx );
 scanf(%f,&xc);
 printf(y );
 scanf(%f,&yc);
 printf(Enter x-radius and y-radiusnx-radius );
 scanf(%f,&rx);
 printf(y-radius );
 scanf(%f,&ry);
 x=0;
 y=ry;
 pk=(ryry)-(rxrxry)+((rxrx)4);
 while((2xryry)(2yrxrx))
 {
  if(pk=0)
```

```
{
 x=x+1;
 pk1=pk+(2ryryx)+(ryry);
}
else
x=x+1;
y=y-1;
pk1=pk+(2ryryx)-(2rxrxy)+(ryry);
}
pk=pk1;
putpixel(xc+x,yc+y,2);
putpixel(xc-x,yc+y,2);
putpixel(xc+x,yc-y,2);
putpixel(xc-x,yc-y,2);
}
pk=((x+0.5)(x+0.5)ryry)+((y-1)(y-1)rxrx)-(rxrxryry);
while(y0)
{
if(pk0)
{
y=y-1;
pk1=pk-(2rxrxy)+(rxrx);
```

```
}
else
{
x=x+1;
y=y-1;
pk1=pk+(2ryryx)-(2rxrxy)+(rxrx);
}
pk=pk1;
putpixel(xc+x,yc+y,2);
putpixel(xc-x,yc+y,2);
putpixel(xc+x,yc-y,2);
putpixel(xc-x,yc-y,2);
}
line(xc+rx,yc,xc-rx,yc);
line(xc,yc+ry,xc,yc-ry);
outtextxy(xc+(1.2rx),yc-(1.2ry),(x,y));\\
outtextxy(xc-(1.2rx),yc+(1.2ry),(-x,-y));
outtextxy(xc+(1.2rx),yc+(1.2ry),(x,-y));
outtextxy(xc-(1.2rx),yc-(1.2ry),(-x,y));
getch();
```

OUTPUT:

}

