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Batch: T5

## **Experiment 4: Implementation on circle algorithms**

## CODE:

```
#include<iostream>
#include<conio.h>
#include<graphics.h>
void drawCircle(int x, int y, int cx, int
cy);
int main()
int gd = DETECT, gm;
int r=150, cx=200, cy=200, pk, x, y;
initgraph(&gd, &gm,
"c:\\turboc3\\bgi");
pk = 1 - r;
x = 0;
y = r;
```

```
while (x < y)
drawCircle(x,y,cx,cy);
++x;
if(pk < 0)
pk = pk + (2*x) + 1;
}
else
{
--y;
pk = pk + (2*x) + 1 - (2*y);
}
getch();
closegraph();
return 0;
```

```
void drawCircle(int x, int y, int cx, int
cy)
{
putpixel(x+cx,y+cy,LIGHTGREEN);
putpixel(-x+cx,y+cy,LIGHTGREEN);
putpixel(x+cx, -
y+cy,LIGHTGREEN);
putpixel(-x+cx, -y+cy,
LIGHTGREEN);
putpixel(y+cx, x+cy,
LIGHTGREEN);
putpixel(y+cx, -x+cy,
LIGHTGREEN);
putpixel(-y+cx, x+cy,
LIGHTGREEN);
putpixel(-y+cx, -x+cy,
LIGHTGREEN);
}
```

## **OUTPUT:**

