## Expirenment no. 3: FLOOD FILL

```
CODE:
#include <stdio.h>
#include <conio.h>
#include <graphics.h>
void flood(int x, int y, int fc, int dc)
 if (getpixel(x, y) == dc &\& getpixel(x, y) != fc)
  {
   putpixel(x, y, fc);
   flood(x + 1, y, fc, dc);
   delay(10);
   flood(x - 1, y, fc, dc);
   delay(10);
   flood(x, y + 1, fc, dc);
   delay(10);
   flood(x, y - 1, fc, dc);
   delay(10);
   // flood(x+1,y+1,fc,dc);
   // flood(x+1,y-1,fc,dc);
       flood(x-1,y+1,fc,dc);
   // flood(x-1,y-1,fc,dc);
  }
}
```

void main()

```
{
 int xc, yc, r, l, b, 11, 12, b1, b2;
 int gm = 0, gd = DETECT;
 initgraph(&gd, &gm, "C:\\TURBOC3\\BGI"); //Paste your BGI path here
 printf("\nEnter center coordinates: ");
 scanf("%d%d", &xc, &yc);
 printf("\nEnter radius: ");
 scanf("%d", &r);
 printf("\nEnter length coordinates: ");
 scanf("%d%d", &11, &12);
 printf("Enter breadth coordinates: ");
 scanf("%d%d", &b1, &b2);
 rectangle(11, 12, b1, b2);
 circle(xc, yc, r);
 flood(xc, yc, 6, 0);
 1 = (11 + 12) / 4;
 b = (b1 + b2) / 4;
 flood(l, b, 6, 0);
 getch();
}
```

## OUTPUT:

