```
/***
        Program to Draw a Circle using Bresenham's Algorithm
                                                                 ***/
#include <stdio.h>
#include <dos.h>
#include <graphics.h>
void circleBres(int, int, int);
void drawCircle(int, int, int, int);
void main()
     int xc, yc, r;
     int gd = DETECT, gm;
     initgraph(&gd, &gm, "");
     printf("Enter center coordinates of circle: ");
     scanf("%d %d", &xc, &yc);
     printf("Enter radius of circle: ");
     scanf("%d", &r);
     circleBres(xc, yc, r);
     getch()
}
void circleBres(int xc, int yc, int r)
{
     int x = 0, y = r;
     int d = 3 - 2 * r;
     while (x < y)
          drawCircle(xc, yc, x, y);
          x++;
```

```
if (d < 0)
               d = d + 4 * x + 6;
          else
          {
               y--;
               d = d + 4 * (x - y) + 10;
          }
          drawCircle(xc, yc, x, y);
          delay(50);
     }
}
void drawCircle(int xc, int yc, int x, int
{
     putpixel(xc+x, yc+y, RED);
     putpixel(xc-x, yc+y, RED);
     putpixel(xc+x, yc-y, RED);
     putpixel(xc-x, yc-y, RED);
     putpixel(xc+y, yc+x, RED);
     putpixel(xc-y, yc+x, RED);
     putpixel(xc+y, yc-x, RED);
     putpixel(xc-y, yc-x, RED);
}
```