```c
#include<stdio.h>
#include<graphics.h>
#include<dos.h>
void rainbow()
{
    int gdriver = DETECT,gmode;
    int x, y,i; initgraph(&gdriver,&gmode,"C:\\Tc\\BGI");
    x = getmaxx() / 2;
    y = getmaxy() / 2;
    for (i=10; i<80; i++)
    {
        delay(100);
        setcolor(i/10);
        arc(x, y, 0, 180, i-10);
    }
}
int main()
{
    rainbow();
    return 0;
}
```