```
from turtle import *
def HSB2RGB(hues):
    hues = hues * 3.59 #100转成359范围
   rgb=[0.0,0.0,0.0]
    i = int(hues/60)\%6
    f = hues/60 -i
    if i == 0:
       rgb[0] = 1; rgb[1] = f; rgb[2] = 0
    elif i == 1:
       rgb[0] = 1-f; rgb[1] = 1; rgb[2] = 0
    elif i == 2:
       rgb[0] = 0; rgb[1] = 1; rgb[2] = f
    elif i == 3:
        rgb[0] = 0; rgb[1] = 1-f; rgb[2] = 1
    elif i == 4:
        rgb[0] = f; rgb[1] = 0; rgb[2] = 1
    elif i == 5:
       rgb[0] = 1; rgb[1] = 0; rgb[2] = 1-f
    return rgb
def rainbow():
   hues = 0.0
    color(1,0,0)
    #绘制彩虹
   hideturtle()
    speed (100)
   pensize(3)
   penup()
   goto (-400, -300)
   pendown()
    right (110)
    for i in range (100):
        circle(1000)
        right(0.13)
       hues = hues + 1
        rgb = HSB2RGB (hues)
        color(rgb[0],rgb[1],rgb[2])
   penup()
def main():
    setup(800, 600, 0, 0)
    bgcolor((0.8, 0.8, 1.0))
    tracer(False)
    rainbow()
    #输出文字
    tracer(False)
    goto(100,-100)
   pendown()
    color("red")
    write("Rainbow", align="center",
          font=("Script MT Bold", 80, "bold"))
    tracer (True)
   mainloop()
if __name__ == "__main__":
   main()
```