```
### Assignment Five - imports assignment
### Author: James Baierski


import turtle as t
import random
from math import sin,cos #import trig functions

colors = ['#fce7e6', '#f6c492', '#fabab5', '#b5d0d4', '#a2c794' ]
t.width(3)
t.begin_fill()

def flower(a,n,end):  #draw the petals
    tt = 0
    while tt < end:
        t.color(random.choice(colors))
        x=a*sin(tt*n)*cos(tt)
        y=a*sin(tt*n)*sin(tt)
        t.goto(x,y)
        tt=tt + 0.02
    t.end_fill()


def turtle():          #draw the circles
    t.color(random.choice(colors))
    for i in range(3):
        t.circle(5+5*i)
        t.up()
        t.setpos(0,-(5+5*i))
        t.down()

def main():          #main function, i gave user option to put in own values
    x = float(input('Set a Value: '))
    y = float(input('Set n Value: '))
    z = float(input('Set end Value: '))
    flower(x,y,z)
    turtle()    #call turtle function

if __name__ == '__main__':      #call main
    main()
```