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# Program for R-K 4th order method
def f(x,y):
 z=x*x+y*y
 return z
# Main Program
# Input Section
xn=float(input('Enter the value of xn:'))
h=float(input('Enter the value of h:'))
n=int(xn/h) ;
x0=0 ;
y0=0 ;
for k in range(0,n):
 k1=f(x0,y0);
 k2=f(x0+h/2,y0+k1/2);
 k3=f(x0+h/2,y0+k2/2);
 k4=f(x0+h,y0+k3);
 k=(k1+2*k2+2*k3+k4)*(h/6);
 y0=y0+k;
 x0=x0+h;
 print('display x and y %0.4f'%x0,'%0.4f'%y0)
```

Results:

```
Enter the value of xn:0.4
Enter the value of h:0.2
display x and y 0.2000 0.0027
display x and y 0.4000 0.0218
```