## **Python Files to PDF**

## prog\_3(c).py

```
import math
a = float(input("Enter the coefficient of a: "))
b = float(input("Enter the coefficient of b: "))
c = float(input("Enter the coefficient of c: "))
#Logic
d = b*b - 4*a*c
if(d>0):
  root1 = (-b + math.sqrt(d)) / (2*a)
  root2 = (-b - math.sqrt(d)) / (2*a)
  print(f"The equation has two distinct real roots: {root1} and {root2}")
elif(d==0):
  root = -b/(2*a)
  print(f"The equation has one distinct real roots: {root}")
else:
  real_part = root
  imaginary_part = math.sqrt(-d) / (2*a)
    print(f"The equation has two complex roots: {real_part} + {imaginary_part}i and {real_part} -
{imaginary_part}i")
```