

```
%Name - Shriman Zunjarrao Patil
% Roll No. - TYMEB209
% Batch - B4
```

```
f = inline('(x^2)/(y^2 + 1)');
x1 = input('Enter the value of x1 = ');
y1 = input('Enter the value of y1 = ');
xn = input('Enter the value of xn = ');
h = input('Enter the value of h = ');
```

```
while x1 < xn
    K1 = h*f(x1,y1);
    K2 = h*f(x1+h, y1+K1);
    K = (K1+K2)/2;

    y1 = y1 + K;
    x1 = x1 + h;
end
fprintf('%f,  %f\n',x1, y1)
```

```
%OUTPUT
Enter the value of x1 = 0
Enter the value of y1 = 0
Enter the value of xn = 1
Enter the value of h = 0.25
1.000000,  0.331938
```