**Algorithm**

**Steps:-**

**1-** asking the user to input any number from 1 to 4 to know the mathematic operation he wants to perform.

**2-** if the input is 1 it means user wants to know the value of sin(x).

**3-** asking the user to input the value of CETA in degrees.

**4-** converting degrees to radians.

**5-** using the value in radians to achieve the sin(x) series by using for loop.

**6-** output the final result to the user.

**7-** if the input is 2 it means user wants to know the value of cos(x).

**8-** repeat step 3& 4.

**9-** using the value in radians to achieve the cos(x) series by using for loop.

**10-** repeat step6.

**11-** if the input is 3 it means user wants to know the value of tan^-1(x).

**12-** repeat step 3& 4.

**13-** using the value in radians to achieve the tan^-1(x) series by using for loop.

**14-** repeat step6.

**15-** if the input is 4 it means user wants to know the value of e^x.

**16-** using the value of X to achieve the series of e^x by using for loop.

**17-** repeat step6.