TAYLOR  SERIES

#include

#include

#define PI 3.142857

int main()

{

float x,degree,nume,deno,sum,term;

int i;

printf("Enter degree:");

scanf("%f",&degree);

x=degree\*(PI/180.0);

sum=0; nume=x; deno=1.0; i=1;

do

{

sum=sum+term;

i=i+2

; // compute next numerator and denominator values

nume= -nume\*x\*x; deno=deno\*i\*(i-1);

printf("Term=%f\n",term);

}

while (fabs(term) >= 0.00001);

printf("Computed value of Sin(%f)=%f\n",degree,sum);

printf("Value from library function is sin(%f) = %f\n",degree,sin(x));

return 0;

}