#include<stdio.h>

#include<math.h>

#define PI 3.14159265358979323846

unsigned long factorial(signed a)

{

if (a == 1)

return 1;

else

return a \* factorial(a - 1);

}

int main(){

int a, x0;

double n, fungsi, x, y;

float rad;

printf("Masukkan angka: ");

scanf("%f", &rad);

printf("Masukkan fungsi yang akan pilih = \n0. Mclaurin \n1. Taylor\n pilihan \t= ");

scanf("%d", &x0);

x=rad\*180/M\_PI;

n=cos(x0);

y=(x-x0);

fungsi = n + (pow(y, 1)/factorial(1)\*pow(y, -1)) + (pow(y, 2)/factorial(2)\*pow(n, -2)) + (pow(y, 3)/factorial(3)\*pow(n, -3)) + (pow(y, 4)/factorial(4)\*pow(n, -4));

printf("cos (%f) adalah = %f", x, fungsi);

}