#include <stdio.h>

#include<math.h>

int main()

{

double op1, op2, result;

char opr;

//Getting an expression

scanf("%lf %c %lf",&op1 ,&opr, &op2);

switch(opr)

{

case '+': result = op1 + op2;

break;

case '-': result = op1 - op2;

break;

case '\*': case 'x': case 'X':

result = op1 \* op2;

break;

case '/': result = op1 / op2;

break;

case '%': result =fmod(op1, op2);

break;

default:

printf("Invalid Operator!");

break;

}

printf("%g %c %g = %g",op1, opr, op2, result);

return 0;

}

//3 values in increasing order

#include <stdio.h>

int main()

{

int a,b,c;

scanf("%d %d %d",&a,&b,&c);

if(a>b && a>c){

if(b>c)

printf("%d %d %d",c,b,a);

else

printf("%d %d %d",b,c,a);

}

if(b>a&& b>c){

if(a>c)

printf("%d %d %d",c,a,b);

else

printf("%d %d %d",a,c,b);

}

if(c>a && c>b){

if(a>b)

printf("%d %d %d",b,a,c);

else

printf("%d %d %d",a,b,c);

}

return 0;

}

//Program to find area of scalene triangle

#include <stdio.h>

#include <math.h>

int main(){

float a,b,c, area, s;

scanf("%f %f %f", &a, &b, &c);

s = (a + b + c) / 2;

area = sqrt(s \* (s-a) \* (s-b) \* (s-c));

printf("Area : %.2f",area);

return 0;

}

#include <stdio.h>

int main()

{

int principle;

float time, rate\_of\_interest, simple\_interest;

printf("Principle Amount : ");

scanf("%d", &principle);

printf("Rate of Interest : ");

scanf("%f", &rate\_of\_interest);

printf("Years : ");

scanf("%f", &time);

simple\_interest = principle \* time \* rate\_of\_interest /100;

printf("Simple Interest : %.2f", simple\_interest);

return 0;

}

//Program to N print sum of natural numbers upto N

#include <stdio.h>

int main()

{

int n,k=0;

scanf("%d", &n);

for (int i=1;i<=n;i++)

k=k+i;

printf("%d ", k);

return 0;

}

//Program to find sum and average of 3 values

#include <stdio.h>

int main(){

int a,b,c, sum;

float avg;

scanf("%d %d %d", &a,&b,&c);

sum = a + b + c ;

avg = sum / 3.0; // avg = (float)sum/3;

printf("Sum : %d\n", sum);

printf("Average : %g", avg);

return 0;

}

//Vowel or not

#include<stdio.h>

#include<conio.h>

int main()

{

char ch;

printf("Enter an Alphabet: ");

scanf("%c", &ch);

if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')

printf("\nIt's a Vowel");

else if(ch=='A' || ch=='E' || ch=='I' || ch=='O' || ch=='U')

printf("%c is a vowel.", ch);

else

printf("%c is not vowel.", ch);

return 0;

}

//Program to calculate Compound Interest

#include <stdio.h>

#include<math.h>

int main()

{

int principle;

float time, rate\_of\_interest, compound\_interest;

printf("Principle Amount : ");

scanf("%d", &principle);

printf("Rate of Interest : ");

scanf("%f", &rate\_of\_interest);

printf("Years : ");

scanf("%f", &time);

compound\_interest = (principle \* pow((1 + rate\_of\_interest/100) , time));

printf("Compound Interest : %.2f", compound\_interest);

return 0;

}

//Program to to print factorial of N

#include <stdio.h>

int main(){

int n, sum=1,i;

scanf("%d", &n);

for (i = 1; i<=n; i++)

sum = sum \* i;

printf("%d", sum);

return 0;

}

//Program to check whether the given number is multiples of 5 or not

#include <stdio.h>

#include<math.h>

int main()

{

int x;

scanf("%d", &x);

printf(x%5==0 ? "Multiple of 5": "not Multiple of 5");

return 0;

}

//Program to N print odd numbers

#include <stdio.h>

int main()

{

int n;

scanf("%d", &n);

for (int i=1; i<=n; i+=2)

printf("%d\t", i);

return 0;

}

//Program to check whether the given number is positive or negavtive or zero

#include <stdio.h>

int main()

{

int num;

char option;

do{

scanf("%d", &num);

if(num>0)

printf("positive");

else if(num<0)

printf("negavtive");

else

printf("Zero");

printf("\n\nWant to check more [Y]es / [N]o ?\n");

scanf("%c", &option);

scanf("%c", &option);

}while(option =='y' || option == 'Y');

return 0;

}