#include <stdio.h>

#include <conio.h>

#include <math.h>

#include <stdlib.h>

int add();

int subtract();

int multiply();

int divide();

int sq();

int sqroot();

void exit();

int main()

{

int choi;

do

{

printf (" Select any of the given options to perform calculation: ");

printf (" \n 1 Add \t \t 2 Subtract \n 3 Multiply\t 4 Divide\n 5 Square \t \t 6 Square Root \n 7 Exit \n \n Give any of one choice ");

scanf ("%d", &choi);

switch (choi)

{

case 1:

add();

break;

case 2:

subtract();

break;

case 3:

multiply();

break;

case 4:

divide();

break;

case 5:

sq();

break;

case 6:

sqroot();

break;

case 7:

exit(0);

break;

default:

printf(" Wrong option ");

break;

}

printf (" \n \n \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* \n ");

} while (choi != 7);

return 0;

}

int add()

{

int i, sum = 0, num, f\_num;

printf (" How many numbers: ");

scanf ("%d", &num);

printf (" Enter the numbers: \n ");

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

{

scanf(" %d", &f\_num);

sum = sum + f\_num;

}

printf (" Sum of the numbers = %d", sum);

return 0;

}

int subtract()

{

int i, sub = 0, num, f\_num;

printf (" How many numbers: ");

scanf ("%d", &num);

printf (" Enter the numbers: \n ");

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

{

scanf(" %d", &f\_num);

if(i==1)sub=f\_num;

if(i!=1)

{

sub=sub-f\_num;

}

}

printf (" Substract of the numbers = %d", sub);

return 0;

}

int multiply()

{

int i, mul = 1, num, f\_num;

printf (" How many numbers: ");

scanf ("%d", &num);

printf (" Enter the numbers: \n ");

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

{

scanf(" %d", &f\_num);

mul=mul\*f\_num;

}

printf (" Multiply of the numbers = %d", mul);

return 0;

}

int divide()

{

int n1, n2, res;

printf (" Enter the first number : ");

scanf (" %d", &n1);

printf (" Enter the second number : ");

scanf (" %d", &n2);

if (n2 == 0)

{

printf (" \n Divisor cannot be zero. Enter another value ");

scanf ("%d", &n2);

}

res = n1 / n2;

printf (" \n The divide of %d / %d is: %d", n1, n2, res);

}

int sq()

{

int n1, res;

printf (" Enter a number : ");

scanf (" %d", &n1);

res = n1 \* n1;

printf (" \n The Square of %d is: %d", n1, res);

}

int sqroot()

{

float res;

int n1;

printf (" Enter a number: ");

scanf (" %d", &n1);

res = sqrt(n1);

printf (" \n The Square Root of %d is: %f", n1, res);

}