***MUHAMMAD KALEEM***

***BS DATA SCIENCE***

***56614***

***LAB NO 2***

#include<iostream>

using namespace std;

void menu();

void add(int a, int b, int \*answer);

void sub(int a, int b, int \*answer);

void multi(int a, int b, int \*answer);

void divide(int a, int b, int \*answer);

void power(int a, int b, int \*answer);

int main()

{

int a;

int b;

int answer;

int choice;

cout << "enter number 1:";

cin >> a;

cout << "enter number 2 :";

cin >> b;

menu();

cout << "enter a choice : " << endl;

cin >> choice;

if (choice == 1)

{

add(a, b, &answer);

cout << "result : " << answer<<endl;

cout << "address :" << &answer<<endl;

}

else if(choice == 2)

{

sub(a, b, &answer);

cout << "result : " << answer<<endl;

cout << "address :" << &answer<<endl;

}

else if(choice == 3)

{

multi(a, b, &answer);

cout << "result : " << answer<<endl;

cout << "address :" << &answer<<endl;

}

else if(choice == 4)

{

divide(a, b, &answer);

cout << "result : " << answer<<endl;

cout << "address :" << &answer<<endl;

}

else if(choice == 5)

{

power(a, b, &answer);

cout << "result : " << answer<<endl;

cout << "address :" << &answer<<endl;

}

system("pause");

return 0;

}

void menu()

{

cout << "..........CALCULATOR......" << endl;

cout << "1) add" << endl;

cout << "2) sub" << endl;

cout << "3) multiply" << endl;

cout << "4) divide" << endl;

cout << "5) power" << endl;

}

void add(int a, int b, int \*answer)

{

\*answer = a + b;

}

void sub(int a, int b, int \*answer)

{

\*answer = a - b;

}

void multi(int a, int b, int \*answer)

{

\*answer = a \* b;

}

void divide(int a, int b, int \*answer)

{

\*answer = a / b;

}

void power(int a, int b, int \*answer)

{

int result = 1;

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

{

\*answer = result\*a;

}

}

