№1

// Online C++ compiler to run C++ program online

#include <iostream>

using namespace std;

int main() {

int number;

cout << "Введите число: ";

cin >> number;

if (number == 10) {

cout << "Вы ввели 10";

}

return 0;

}

№2

#include <iostream>

using namespace std;

int main() {

int arr[5];

for (int i = 0; i < 5; i++) {

arr[i] = i \* 2;

cout << arr[i] << " ";

}

return 0;

}

№3

#include <iostream>

using namespace std;

int main() {

int count = 0;

while (count < 5) {

cout << count << endl;

count++;

}

return 0;

}

№4

#include <iostream>

using namespace std;

int main() {

float num;

cin >> num;

int numInt = (int)num;

cout << "Целое число: " << numInt << endl;

if (numInt == 5) {

cout << "numInt равно 5";

}

return 0;

}

№5

#include <iostream>

using namespace std;

int main() {

int numArray[5];

for(int i = 0; i < 5; i++) {

numArray[i] = i \* 2;

}

cout << "Array values: " << endl;

for(int i = 0; i < 5; i++) {

cout << “Element " << i << ": " << numArray[i] << endl;

}

int sum;

sum = 0;

return 0;

}

№6

#include <iostream>

using namespace std;

int main() {

int x = 10;

float y = 3.14;

char myChar = 'A';

bool isTrue = true;

if (x > 5) {

cout << "x is greater than 5" << endl;

}

else {

cout << "x is less or equal to 5" << endl;

}

cout << "Value of y: " << y << endl;

cout << "Character: " << myChar << endl;

cout << "Boolean: " << isTrue << endl;

return 0;

}

№7

#include <iostream>

using namespace std;

int main() {

unsigned int uVal = 10;

signed int sVal = -20;

cout << "Unsigned Value: " << uVal << endl;

cout << "Signed Value: " << sVal << endl;

int user\_input;

cout << "Enter a number: ";

cin >> user\_input;

if (user\_input < 0) {

cout << "Negative number!" << endl;

}

else {

cout << "Positive number!" << endl;

}

return 0;

}

№8

#include <iostream>

using namespace std;

int main() {

int a = 10;

int b = 20;

int \*ptrA;

int \*ptrB;

ptrA = &a;

ptrB = &b;

cout << "Value of a: " << \*ptrA << endl;

cout << "Value of b: " << \*ptrB << endl;

\*ptrA = \*ptrB;

cout << "After assigning b to a: " << \*ptrA << endl;

int c = 30;

int \*ptrC;

ptrC = &c;

cout << "Value of c: " << \*ptrC << endl;

cout << "End of program." << endl;

return 0;

}

№9

#include <iostream>

using namespace std;

int main() {

int num = 5;

int \*pNum;

pNum = &num;

cout << "Number before: " << \*pNum << endl;

\*pNum = 10;

cout << "Number after: " << \*pNum << endl;

float p = 5.5;

float \*pFloat;

pFloat = &p;

cout << "Float value: " << \*pFloat << endl;

int arr[5] = {1, 2, 3, 4, 5};

for (int i = 0; i < 5; i++) {

cout << arr[i] << " ";

}

cout << endl;

return 0;

}

№10

#include <iostream>

using namespace std;

int main() {

float fValue = 3.14;

float \*pfValue;

pfValue = &fValue;

cout << "Float value: "<< \*pfValue << endl;

int arr[5] = {1, 2, 3, 4, 5};

int \*pArr;

pArr = arr;

for (int i = 0; i < 5; i++) {

cout << pArr[i] << " ";

}

cout << endl;

for (int i = 0; i < 5; i++) {

cout << arr[i] << " ";

}

cout << endl;

pfValue = nullptr;

return 0;

}