

МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ РОССИЙСКОЙ ФЕДЕРАЦИИ

**ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ**

**ОБРАЗОВАТЕЛЬНОЕ УЧРЕЖДЕНИЕ ВЫСШЕГО**

**ПРОФЕССИОНАЛЬНОГО ОБРАЗОВАНИЯ**

**«Донской государственный технический университет»**

**(ДГТУ)**

Кафедра «Программное обеспечение вычислительной техники и автоматизированных систем»

**ЛАБОРАТОРНАЯ РАБОТА**

**«Организация ввода/вывода данных средствами**

**языка С и С++»**

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#include <stdio.h>

#include <stdlib.h>

int main()

{

char c='Q';

wchar\_t wc=L'q';

printf("Ordinary variable: %c\n",c);

wprintf(L"Wide variable: %c\n",wc);

printf("Meanings: \n");

putchar(c);

putchar(wc);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{

char q, str[20];

q='g';

printf("Enter new line: \n");

scanf("%s", str);

int i;

for (i = 0; str[i] != '\0'; i++){

if (str[i] != q) {

if (i < 8) {

putchar(str[i]);

}}

else {

putchar(str[i]);

break;

}}}

#include <stdio.h>

int main()

{

int x,y,z;

printf("Enter three numbers \n");

scanf("%d %d %d", &x, &y, &z);

char st1[5], st2[5], st3[5], p[15]={'.'};;

printf("Enter three words \n");

scanf("%s %s %s", st1, st2, st3);

printf("Result: \n");

int q,w,e,i;

q = strlen(st1);

w = strlen(st2);

e = strlen(st3);

printf("%s",st1);

for (i=1;i<(15-q);q++) {

printf("%s",p);

}

printf("%d\n",x);

printf("%s",st2);

for (i=1;i<(15-w);w++) {

printf("%s",p);

}

printf("%d\n",y);

printf("%s",st3);

for (i=1;i<(15-e);e++) {

printf("%s",p);

}

printf("%d\n",z);

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{ int q,w,e,r;

printf("Enter first coordinations: \n");

scanf("(%d,%d)",&q,&w);

fflush(stdin);

printf("Enter second coordinations: \n");

scanf("(%d,%d)",&e,&r);

printf("First (%d,%d)\n",q,w);

printf("Second (%d,%d)\n",e,r);

return 0; }

#include <stdio.h>

#include <stdlib.h>

int main()

{printf("Enter your text: ");

char z,x,c[20];

z=getchar();

x=getchar();

gets(c);

printf("Result: \n");

printf("Char number one = %c; \n",z);

printf("Char number two = %c; \n",x);

printf("String = %s. \n",c);

return 0; }

#include <stdio.h>

#include <stdlib.h>

int main()

{

int a, b;

char q[20], w[20], e[20];

printf("Hello! Today we will conduct a survey.\n");

printf("1.What's the date today? \n");

scanf("%d", &a);

...

printf("Press any key to result. \n");

getch();

system("cls");

printf("|-----------------------------------| \n");

printf("1.What's the date today? \n");

printf("%40d \n", a);

...

return 0;

}

#include <stdio.h>

#include <stdlib.h>

int main()

{double z,x,c,v;

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

scanf("%f %f %f", &z,&x,&c);

v=z+x+c;

printf("Result of addition: \n");

printf("%f \n", &v);

return 0; }

#include <stdio.h>

#include <stdlib.h>

int main()

{ int x;

float y;

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

scanf("%d %f", &x, &y);

printf("First number: \n");

printf("in octal - %16o \n", x);

printf("in hexadecimal - %10x \n", x);

printf("Second number: \n");

printf("With one sign - %5.1e \n", y);

printf("With two signs - %5.2e \n", y);

printf("With three signs - %5.3e \n", y);

return 0; }

#include <stdio.h>

#include <stdlib.h>

int main()

{ int x; float y;

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

scanf("%d %f", &x, &y);

printf("First number: \n");

printf("in octal - %16o \n", x);

printf("in hexadecimal - %10x \n", x);

printf("Second number: \n");

printf("With one sign - %5.1e \n", y);

printf("With two signs - %5.2e \n", y);

printf("With three signs - %5.3e \n", y);

return 0; }

**C**

**C++**

#include <iostream>

using namespace std;

int main()

{double a,b,c,s;

cout << "Enter first term: " <<endl;

cin >> a;

cout << "Enter second term: " <<endl;

cin >> b;

cout << "Enter the third term: " <<endl;

cin >> c;

s = a+b+c;

cout << "Result: " << s << endl;

return 0;}

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

int x;

double y;

cout <<"Enter first number: ";

cin >> x;

cout <<"Enter word or letter: ";

cin >> y;

cout << "In hexadecimal: "<< hex << x << endl;

cout << "In octal: "<< oct << x << endl;

cout << "Precision one character: "<<scientific<< setprecision(1) << y << endl;

cout << "Precision two character: "<<scientific<< setprecision(2) << y << endl;

cout << "Precision three character: "<< scientific<< setprecision(3) << y

<< endl;

return 0;

}

#include <iostream>

#include <cstdio>

using namespace std;

int main()

{char q,st1[20];

q='g';

cout << "Enter new line : ";

cin >> st1;

int i;

for (i = 0; st1[i] != '\0'; i++) {

if (st1[i] != q) {

if (i < 8) {

cout << st1[i];

}}

else {

putchar(st1[i]);

break;

}}}

#include <iostream>

using namespace std;

int main()

{

cout <<"Enter your text: "<<endl;

char z,x,c[20];

cin.get(z);

cin.get(x);

cin.getline(c, 20);

cout <<"Result: "<<endl;

cout <<"Char number one = " << z << endl;

cout <<"Char number two = " << x << endl;

cout <<"String = " << c << endl;

return 0;}

#include <iostream>

using namespace std;

int main()

{char c='Q';

wchar\_t wc=L'q';

cout<<"Ordinary variable: "<<c<<endl;

wcout<<L"Wide variable: "<<wc<<endl;

cout<<"Meanings: "<<endl;

cout.put(c); cout.put(wc);

return 0; }

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{ float a;

cout << "Enter variable: " << endl;

cin >> a ;

cout <<"Answer: "<< endl;

cout << setw(40) << right << fixed << setprecision(1) << a << endl;

cout << setw(40) << right << fixed << setprecision(2) << a << endl;

cout << setw(40) << right << fixed << setprecision(3) << a << endl;

cout << setw(40) << right << fixed << setprecision(4) << a << endl;

return 0;}

#include <iostream>

using namespace std;

int main()

{ int a,b,c,d;

cout << "Enter first coordinations: " << endl;

char c1,c2,c3;

cin.get(c1);

cin >> a;

cin.get(c2);

cin >> d;

cin.get(c3);

cin.sync();

cout << "Enter second coordinations: " << endl;

cin.get(c1);

cin >> b;

cin.get(c2);

cin >> c;

cin.get(c3);

cout << "First ("<<a<<","<<d<<")"<<endl;

cout << "Second ("<<b<<","<<c<<")"<<endl;

return 0;

}

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{ int x,y,z;

cout << "Integer" << endl;

cout << "Enter first item: "<< endl ;

cin >> x;

…

string st1, st2, st3;

cout << "String" << endl;

cout << "Enter first item: "<< endl ;

cin >> st1;

…

char p[15]= {'.','.','.','.','.','.','.','.','.','.','.','.','.','.'};

cout << "First variant: " << endl;

cout <<setfill('.')<<setw(15)<<left<< st1 << p;

cout <<x << endl;

…

cout << z << endl;

return 0;}

#include <iostream>

#include <iomanip>

#include <stdlib.h>

using namespace std;

int main()

{

int a, b;

char q[20], w[20], e[20];

cout <<"Hello! Today we will conduct a survey."<<endl;

cout <<"1.What's the date today? "<<endl;

cin >>a;

…

cout <<"Press any key to result. " << endl;

system("cls");

cout << "|-----------------------------------|" << endl;

cout <<"1.What's the date today? "<<endl;

cout <<setw(40) << right << a<<endl;

…

cout << "|-----------------------------------|" << endl;

return 0; }