**Министерство Образования и Просвещения Республики Молдова**

**Бельцкий Государственный Университет им. ,,Алеко Руссо”**

**Proect**

**Tema: TABELUL DE APARTENENȚĂ. OPERAȚII CU MULȚIMI.**

**Группа: IS11Z**

**Подготовил:Порческу Д.**

**Бельцы, 2020**

## I. Formularea problemei

De efectuat următoarele operații:

1. Complementul unei mulțimi;
2. Intersecția a două mulțimi;
3. Reuninea a două mulțimi;
4. Diferența a două mulțimi;
5. Egalitatea a două mulțimi;
6. Diferența simetrică.

## II. Programul

#include <iostream>

#include <iomanip>

using namespace std;

int main()

{

int i;

unsigned a, b;

unsigned rez;

int limit = 9;

cout << "Proiect nr. 1. Tabelul de apartenta!" << endl;

cout << "\n Complementul" << endl;

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "| A | !A |\n";

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

for(a = 0; a<=1; a++) {

rez = !a;

cout << "| " << a << " | " << rez << " |" << endl;

}

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "\n Intersectia" << endl;

limit += 9;

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "| A | B | A and B |\n";

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

for(a = 0; a<=1; a++)

for(b = 0; b<=1; b++) {

rez = a && b;

cout << "| " << a << " | " << b << " |" << setw(5) << rez << setw(5) << "|" << endl;

}

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "\n Reuniunea" << endl;

limit--;

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "| A | B | A or B |\n";

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

for(a = 0; a<=1; a++)

for(b = 0; b<=1; b++) {

rez = a || b;

cout << "| " << a << " | " << b << " |" << setw(5) << rez << setw(4) << "|" << endl;

}

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "\n Diferenta" << endl;

limit--;

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "| A | B | A - B |\n";

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

for(a = 0; a<=1; a++)

for(b = 0; b<=1; b++) {

rez = a && !b;

cout << "| " << a << " | " << b << " |" << setw(4) << rez << setw(4) << "|" << endl;

}

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "\n Diferenta simetrica" << endl;

limit += 3;

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

cout << "| A | B | A d.s. B |\n";

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

for(a = 0; a<=1; a++)

for(b = 0; b<=1; b++) {

rez = (a && !b) || (!a && b);

cout << "| " << a << " | " << b << " |" << setw(6) << rez << setw(5) << "|" << endl;

}

for(i=0; i<=limit; i++) cout << "-";

cout << endl;

return 0;

}

## III. Rezultatele și analiza lor

