

ZGJIDHJET E SEMINAR 5 , 7,8

SEMINAR 5

Ushtrimi 2

//ndertoni ne c++ nje program qe merr vleren e emrit ne nje variabel dhe mbiemrit ne nje var tjetër stringe dhe afishon ate ne ekran

```
#include <iostream>
#include <string>

using namespace std;
int main()
{
    string Emer="Vitmir";
    string Mbiemer="Smakaj";
    cout<< Emer<<" "<<Mbiemer<<endl;
    return 0;
}
```

Ushtrimi 3

```
#include <iostream>
/*ushtrimi 3 seminar 5*/
using namespace std;
int main()
{ int a,b,c,d,e;
  double pro,p,s;
  cout << "jepni 5 numra duke shtypur enter pas cdo numri" << endl;
  cin>>a;
  cin>>b;
  cin>>c;
  cin>>d;
  cin>>e;
  pro=a*b*c*d*e;
  p=(a*a)*(b*b*b);
  s=(c*c*c*c*c)/(c*c);
  cout << "Produkti i tyre eshte " << endl;
  cout << pro << endl;
  cout << "prodhimi i te parit ne kateror dhe i dytit ne fuqi 3 eshte " << endl;
  cout << p << endl;
  cout << "raporti i c ne fuqi 4 me d ne fuqi 2 " << endl;
  cout << s << endl;
  return 0;
}
```

Ushtrimi 4

```
#include <iostream>
using namespace std;
//ndertoni nje program ne c++ qe nerr 3 numra dhe me afisho numrin me te madh ndermjet tyrer
int main()
{ int a,b,c;
  cout << "futni numrin e pare "<<endl;
  cin>>a;
  cout << "futni numrin e dyte " <<endl;
  cin>>b;
```

```

cout << "futni numrin e trete " <<endl;
cin>>c;
if (a>b && a>c)
cout<<"numri me i madh eshte I PARI: "<<a<<endl;
else if (b>a && b>c)

cout<<"numri me i madh eshte I DYTI: "<<b<<endl;
else
cout<<"numri me i madh eshte I TRETI: "<<c<<endl;
return 0;
}

```

Ushtrimi 5

```

#include <iostream>
#include <cstdlib>
using namespace std;
int main(int argc , char *argv[]) {
int mosha , a, x;
cout << "Jepni moshen!" << endl;
cin>>mosha;
if (mosha>=18)
{
x=mosha;
cout<<"Ju keni te drejte te votoni"<<endl;
cout<<"mosha juaj eshte "<<mosha<<endl;
}
else
{
cout<<"Ju nuk keni te drejute te votoni"<<endl;
cout<<"Moshja juaj eshte "<<mosha<<endl;
a=18-mosha;
cout<<"Ju duhen edhe "<<a<<"vite"<<endl;
}
system ("PAUSE");
return EXIT_SUCCESS;
}

```

Ushtrimi 6

```

//bashtingellore dhe zanore
int main(int argc,char *argv[])
{
int i,n;
char shkronja;
int basht,zanore;
cout << "Jepni sa shkronja doni te vendosni"<<endl;
cin>>n;
cout << "Jepni "<<n<<" shkronja"<<endl;
zanore=0;
for(int i=0;i<n;i++){
cin>>shkronja;
switch (shkronja){
case 'a':

```

```

case 'e':
case 'ë':
case 'i':
case 'o':
case 'u':
case 'y':
zanore++;}}
basht=n-zanore;
cout<<"jane "<<zanore<<" zanore dhe "<<basht<<" bashktingellore "<<endl;
return 0;
}

```

Ushtrimi 7

```

#include <cstdlib>
#include <iostream>
using namespace std;
const double pi =3.14 ;
int main(int argc, char *argv[])
{
double sip, per, rr ;
cout <<"Jepni rrezin e rrethit " << endl;
cin>> rr ;
per = 2 * pi * rr ;
sip = pi * rr * rr ;
cout<<"Siperfaqja eshte "<<sip <<" \ndhe perimetri eshte " << per << endl;
system("PAUSE");
return EXIT_SUCCESS;
}

```

Ushtrimi 8

```

#include <cstdlib>
#include <iostream>
using namespace std;
int main(int argc, char *argv[])
{
int Vllaznia, Dinamo;
cout << "Fut piket per ekipin e Vllaznise: ";
cin >> Vllaznia;
cout << "\nFut piket per ekipin e Dinamos: ";
cin >> Dinamo;
cout << "\n";
if (Vllaznia > Dinamo)
cout << "Forca Vllaznia!\n";
if (Vllaznia < Dinamo)
{
cout << "Forca Dinamo!\n";
cout << "Te lumtur festojne tiranasit!\n";
}
if (Vllaznia == Dinamo)
{
cout << "Mos, barazim?\n";
cout << "Piket per Dinamon: ";
cin >> Dinamo;
}
}

```

```

if (Vllaznia > Dinamo)
    cout << "Bravo Vllaznia!";
if (Dinamo > Vllaznia)
    cout << "Bravo Dinamo!";
if (Dinamo == Vllaznia)
    cout << "Uau, barazim me te vertete!";
}
cout << "\n Faleminderit per bashkepunimin \n";
system("PAUSE");
return EXIT_SUCCESS;
}

```

Ushtrimi 9

```

#include <iostream.h>
int main ()
{
int gjeresi, lartesi;
cout<< "Jepni nje vlere per gjeresine dhe lartesine\n";
cin>>gjeresi;
cin>>lartesi;
cin.get();
for (int i=0; i<lartesi; i++) {
    for (int j=0; j<gjeresi; j++) {
        cout << "*";
    }
    cout << endl;
}
cin.get();
return 0;
}

```

SEMINAR 7

1)Ndertoni nje program qe nepermjet nje funksioni rendit ne rendin rrites tre nr te dhene.

```

/*
 * funks.cpp
 *
 * Created on: 30.03.2013
 * Author: Elisa
 */

#include <cstdlib>
#include <iostream>

using namespace std;

int a,b,c;

int main(){
    cin >> a;
    cin >> b;
    cin >> c;
}

```

```

if ((a > b) and (a > c) and (b > c))
    cout << a <<" " << b <<" " << c;

else if ((a > b) and (a > c) and (b < c))
    cout << a <<" " << c <<" " << b;

else if ((b > a) and (b > c)and (a > c))
    cout << b <<" " << a <<" " << c;

else if ((b > a) and (b > c)and (a < c))
    cout << b <<" " << c <<" " << a;

else if ((c > b) and (c > a) and (a > b))
    cout << c <<" " << a <<" " << b;

else if ((c > b) and (c > a) and (a < b))
    cout << c <<" " << b <<" " << a;
}

```

2) Te ndertohet nje program qe perdore nje funksion per llogaritjen e sip tedrejtekesdeshit dhe katrorit.

Te krijohen funksione te mbivendosura

llogarit(int a, int b)

llogarit(double a, double b)

```

/*
 * funks.cpp
 *
 * Created on: 30.03.2013
 * Author: Elisa
 */

#include <cstdlib>
#include <iostream>

using namespace std;

// sipërfaqja e drejtkëndeshit
int llogarit(int a, int b){
    int sip;
    cin >> a >> b;
    sip = a * b;
    return sip;
}

double llogarit(double a, double b){
    double sip;
    cin >> a >> b;
    sip = a * b;
    return sip;
}

```

```

int llogarit(int a){
    int sip;
    cin >> a;
    sip = a * a;
return sip;
}
int main(){
    int s =llogarit (4);
    cout << "Siperfaqja e katrorit per vlera te plota int eshte : " << s << endl;
    int s1= llogarit (3,5);
    cout << "Siperfaqja e drejtkendeshit per vlera te plota int eshte : " << s1 << endl;
    double s2 = llogarit (2.3 , 1.2);
    cout << "Siperfaqja e drejtkendeshit per vlera me presje double eshte : " << s2 << endl;
    return 0;
}

```

3) Ndertoni nje program ne C++ qe nderthur perdorimin e funksioneve
Ku njeri funksion afishon mesazhin si me poshte

```

=====
UNIVERSITETI LUIGJ GURAKUQI
Fakulteti i Shkencave te Natyres
Dega Informatik
=====

```

Si dhe daten dhe oren.

Ndersa funksioni tjetër realizon llogaritjen e teoremes se pitagores

```

/*
* funks.cpp
*
* Created on: 30.03.2013
* Author: Elisa
*/

#include <cstdlib>
#include <iostream>
#include <cmath>
#include<ctime>
using namespace std;

void afishim (void){
    cout << "===== " << endl;
    cout <<" UNIVERSITETI LUIGJ GURAKUQI " << endl;
    cout <<" Fakulteti i Shkencave te Natyres" <<endl;
    cout <<" Dega Informatik " << endl;
    cout <<"===== " <<endl;
    time_t rawtime;
    struct tm * timeinfo;

    time ( &rawtime );
    timeinfo = localtime ( &rawtime );
    cout<<"Data dhe ora aktuale eshte : " << asctime (timeinfo) <<endl;
}

```

```

}

float teormPitagors(int a, int b){
    float c;
    c = sqrt (a * a + b * b );
    return c;
}

int main(){
    afishim();
    cout.precision(3);
    cout << "Teorema e Pitagores eshte : " << teormPitagors(2,3)<< endl;
    return 0;
}

```

4) Implementoni ne paskal program qe gjen rrenjet katrore te ekuacionit: $ax^2 + bx+c=0$

```

/*
 * funks.cpp
 *
 * Created on: 30.03.2013
 * Author: Elisa
 */

#include <cstdlib>
#include <iostream>
#include <cmath>
using namespace std;

int main(){
    int a,b,c ,d;
    float x1, x2;

    cout << "jepni koeficientat \n";
    cin >> a >> b >> c;

    d = b*b - 4 * a * c;
    if (d == 0 ){
        x1 = x2 = (-b) / 2 * a;
        cout.precision(3);
        cout << "Ekuacioni ka vetem nje zgjidhje dhe ajo eshte : " << x1 << endl;
    }

    else if (d > 0 ){
        x1 = (-b)+ sqrt(d) / 2 * a;
        x2 = (-b) - sqrt(d) / 2 * a;
        cout.precision(3);
        cout << "Dallori eshte me i madhe se 0 => ekuacioni ka dy zgjidhje " << x1 <<" dhe " << x2 <<endl;
    }

    else if (d<0)
        cout << "Dallori eshte negativ => ekuacioni nuk ka zgjidhje \n";
}

```

```
return 0;
}
```

5) Ndertoni nje program qe llogarit peshen ideale te nje personi nepermjet formules $P=(GJ-100 + M/10)*KM$, ku $km=0.9$, $kf=0.8$

Ku gj-gjinia;

Km, kf- koeficientet per mashkullin dhe femren

```
/*
 * funks.cpp
 *
 * Created on: 30.03.2013
 * Author: Elisa
 */

#include <cstdlib>
#include <iostream>
#include <cmath>
using namespace std;
const float km = 0.9;
const float kf = 0.8 ;
int main(){
    int gj, m;
    float p;
    char s ;

    cout << "Jepni gjatesine ne cm \n";
    cin >> gj ;
    cout << "Jepni moshen \n";
    cin >> m;
    cout << "Shtypni f nese doni te llogarisni peshen per femra dhe m per meshkujt \n";
    cin >> s;
    if (s == 'f'){
        p =(gj-100+m/10)*kf;
    }
    else if (s == 'm' ){
        p =(gj-100+m/10)*km;
    }

    cout.precision(3);
    cout << "Pesha juaj ideale eshte : " << p << endl ;
    return 0;
}
```

SEMINAR 8

-----Arrays-----

1) Ndertoni nje program qe me ane te funksioneve mbush nje tabele me te dhena te tipit int dhe i afishon ato.

```
/*
 * tabelet.cpp
 *
```



```

* Created on: 17.03.2013
*   Author: Elisa
*/
#include <iostream>
using namespace std;
const int n=5;
int i;
int tabelle[n];
void lexo_tabele (void){
    cout << "Jepni vlerat per tabelen \n";
    for (i=0;i<n;i++){
        cin >> tabelle[i];
    }
}

void afisho_tabele (void){
    cout << "Po afishoj vlerat e tabeles \n" ;
    for (i=0;i<n;i++){
        cout << "kur index-i eshte: " << i << " vlera eshte: " << tabelle[i] << "\n";
    }
}

int main(){
    lexo_tabele();
    cout<<"-----\n";
    afisho_tabele();
    return 0;
}

```

2) Ndertoni nje program qe gjen elementin max dhe min te nje tabelle me n permasa.

```

/*
* tabelle.cpp
*
* Created on: 17.03.2013
*   Author: Elisa
*/
#include <iostream>
using namespace std;
const int n=5;
int i;
int a[n];

void lexo_tabele (void){

    cout << "Jepni vlerat per tabelen \n";
    for (i=0;i<n;i++){
        cin >> a[i];
    }
}

```

```

void afisho_tabele (int tab[]){

    cout << "Po afishoj vlerat e tabelës \n" ;
    for (i=0;i<n;i++){
        cout << "kur index-i është: " << i << " vlera është: " << tab[i] << "\n";
    }
}

void maximum (int tab[]){
    int max = tab[0];
    for (i=0;i<n;i++){
        if(tab[i]>max)
            max=tab[i];
    }
    cout << "Maximumi është = " << max;
}

void minimum (int tab[]){
    int min = tab[0];
    for (i=0;i<n;i++){
        if(tab[i]<min)
            min=tab[i];
    }
    cout << "Minimumi është = " << min;
}

int main(){
    lexo_tabele();
    cout<<"-----\n";
    afisho_tabele(a);
    cout<<"-----\n";
    maximum (a);
    cout << endl;
    cout<<"-----\n";
    minimum (a);
    return 0;
}

```

-----OSE :

```

/*
 * tabelet.cpp
 *
 * Created on: 17.03.2013
 * Author: Elisa
 */

```

```

#include <iostream>
#include <cstdlib>

```

```

using namespace std;

```

```

int main(){
    int Arr[100],n,i,min,max;
    cout<<"Jepni nr e elementeve qe doni te insertoni ";
    cin>>n;

    for(int i=0;i<n;i++)
    {
        cin>>Arr[i];
    }
    min=Arr[0];
    max=Arr[0];
    for(i=1;i<n;i++)
    {
        if(Arr[i]<min)
            min=Arr[i];
        if(Arr[i]>max)
            max=Arr[i];
    }
    cout<<"\nElementi max eshte :"<<max;
    cout<<"\nElementi min eshte :"<<min;
    return 0;
}

```

3) Ndertoni nje program qe llogarit shumen e elementeve te nje tabele njedimensionale dhe e afishon ne nje format te tille :

Prsh

Shuma e tabeles me elemente = { 5 , 4 , 3 , 6} eshte: 18

```

/*
 * tabelet.cpp
 *
 * Created on: 17.03.2013
 * Author: Elisa
 */

#include <iostream>
#include <cstdlib>
const int n=4;
using namespace std;
int main(){
    int a[n];
    cout<<"Jepni elementet e tabeles me "<<n<<" elemente numra te plote: "<<endl;
    for (int i=0; i<n; i++)
        cin>>a[i];
    int sum = 0;
    for (int i=0; i<n; i++) {
        sum = sum + a[i];
    }
    cout<<"-----"<<endl;
    cout << "Shuma e tabeles me elemente = { " ;
    for (int i=0; i<n; i++){

```

```

        cout << a[i] ;
        if ( i == n-1)
            continue;
        cout<< " , ";
    }
    cout <<"} eshte: \t"<<sum << endl;
    return 0;
}

```

4)Ndertoni nje program qe printon tabelen ne drejtimin e kundert te tabeles se dhene

```

/*
 * tabelet.cpp
 *
 * Created on: 17.03.2013
 * Author: Elisa
 */

#include <iostream>
#include <cstdlib>
const int n=4;
using namespace std;
int main() {
    float a[n];
    cout<<"Jepni elementet e tabeles me "<<n<<" elemente numra reale: "<<endl;
    for (int i=0; i<n; i++)
        cin>>a[i];
    cout<<"-----"<<endl;
    cout << "Tabela e kembyer: \n" ;
    //--- printojme tab ne renditjen e kundert
    for (int i=n-1; i>=0; i--) {
        cout << a[i] << endl;
    }
    return 0;
}

```

5) Ndertoni nje program qe llogarit mesataren e elementeve te nje table 1-dimensionale me ane te nje funksioni.

```

/*
 * tabelet.cpp
 *
 * Created on: 17.03.2013
 * Author: Elisa
 */

#include <iostream>
#include <cstdlib>
const int n=4;
using namespace std;

float Mesatare( float x[]) {

```

```

float shume = 0.0 ;
float mes = 0.0;
for (int i=0; i<n; i++){
    shume = shume + x[i];
}
cout << "Shume eshte e = " << shume << endl ;
mes = shume /n ;
    return mes;
}

int main() {
    float a[n];
    cout<<"Jepni elementet e tabelës me "<<n<<" elemente numra reale: "<<endl;
    for (int i=0; i<n; i++)
        cin>>a[i];
    cout << "Mesatarja eshte e = " << Mesatare(a) << endl;
    return 0;
}

```

6) Ndertoni nje program qe gjene shumen e elementeve te nje matrice me permasa m,n

```

/*
* tabelet.cpp
*
* Created on: 17.03.2013
* Author: Elisa
*/

#include <iostream>
#include <cstdlib>
const int m=3;
const int n=2;
using namespace std;

int main()
{
    int s=0;
    int matrica[m][n];
    cout<<"Jepni elementet e matrices: \n";
    for (int i=0;i<m;i++)
        for (int j=0;j<n;j++)
            cin>>matrica[i][j];
    cout << "Po afishoj matricen \n" ;
    for (int i=0;i<m;i++){
        for (int j=0;j<n;j++){
            cout << matrica [i][j] << " ";
        } cout << endl ;
    }
    //njehsoj shumen e elemteve te mat
    cout << "Po afishoj matricen \n" ;
    for (int i=0;i<m;i++)
        for (int j=0;j<n;j++)
            s=s + matrica[i][j];
}

```

```

        cout<<"\nShuma s = "<<s;
    return 0;
}

```

7) Ndertoni program qe llogarit shumen e diagonaleve kryesore dhe sekondare te nje matrice me n rreshta e n shtylla.

```

/*
 * tabelet.cpp
 *
 * Created on: 17.03.2013
 * Author: Elisa
 */

#include <iostream>
#include <cstdlib>
const int n=3;
using namespace std;
int diag_kryesore (int a[][n])
{
    int sh=0;
    for (int i=0;i<n;i++)
        sh+=a[i][i];
    return sh;
}

int diag_sekondare (int a[][n])
{
    int sh=0;
    for (int i=0;i<n;i++)
        sh+=a[i][n-i];
    return sh;
}

int main() {
    int tab[n][n];
    int s,k;
    cout<<"Jepni elementet e matrices katrore prej "<<n*n<<" elementesh"<<endl;
    for (int i=0;i<n;i++)
        for (int j=0;j<n;j++)
            cin>>tab[i][j];

    for (int i=0;i<n;i++){
        for (int j=0;j<n;j++)
            cout << tab[i][j]<<"\t";
        cout<<"\n";
        s=diag_kryesore(tab);
        k=diag_sekondare(tab);
        cout<<"\nShuma e elementeve te diag. kryesore te mat. katrore eshte: "<<s;
        cout<<"\nShuma e elementeve te diag. sekondare te mat. katrore eshte: "<<k;
    }
    return 0;
}

```

8) Ndertoni nje program qe kontrollon nese nje element ndodhet ne matrice e nese po afishon index-et e atij elementi.

```

/*
 * tabelet.cpp
 *
 * Created on: 17.03.2013
 * Author: Elisa
 */

#include <iostream>
#include <cstdlib>
const int n=3;
const int m= 2;
using namespace std;

bool existon (int matrice[m][n], int vlere){
    bool u_gjet;
    for (int i=0; i<m; i++){
        for (int j=0;j<n;j++){
            if (vlere == matrice [i][j]){
                cout << "elementi u gjend ne index-et " << i << " dhe " << j << endl ;}
                u_gjet = true;
                if (vlere != matrice [i][j])
                    u_gjet = false;
            }
        }
        return u_gjet;
    }
}

int main (){
    int mat[m][n];
    int vl;
    cout << "Jepni elementet e matrices \n" ;
    for (int i=0; i<m; i++)
        for (int j=0;j<n;j++)
            cin >> mat [i][j];
    for (int i=0;i<m;i++){
        for (int j=0;j<n;j++)
            cout << mat[i][j]<<"\t";
        cout<<"\n";}
    cout << "Jepni elementin qe doni te kerkoni \n";
    cin >> vl;
    cout << "Rezultati i ketij kerkimi eshte : " << existon(mat,vl);
    return 0 ;
}

```