Lab task 1

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***BSCS- 3rd Semester***

Q:- Write a program that display welcome to uol on the screen..

#include<iostream>

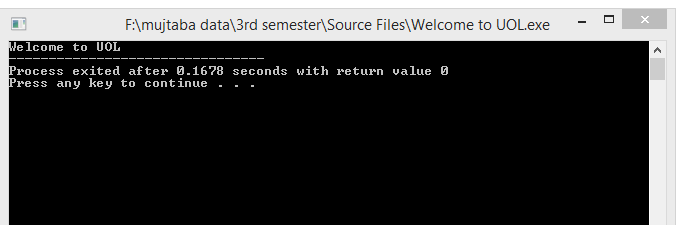
using namespace std;

int main()

{

cout<<"Welcome to UOL";

}



Q:- Write a program that convert temperature from centigrade to farehnite.

#include<iostream>

using namespace std;

int main()

{

float fahrenheit, celsius;

cout << "Enter the temperature in Celsius : ";

cin >> celsius;

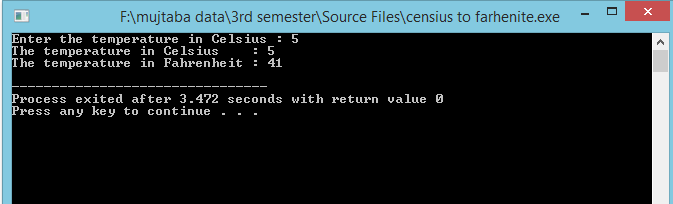
fahrenheit = (celsius \* 9.0) / 5.0 + 32;

cout << "The temperature in Celsius : " << celsius << endl;

cout << "The temperature in Fahrenheit : " << fahrenheit << endl;

return 0;

}



Q: Write a program to find the volume of a box.

#include<iostream>

using namespace std;

int main()

{

float a, w, l, h, v;

cout<< "Enter the value of l <length>?\n";

cin >> l;

cout<< "Enter the value of w <Width>?\n";

cin >> w;

cout<< "Enter the value of h <height>?\n";

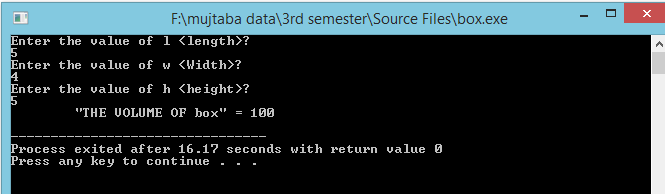
cin >> h;

a = w \* h;

v = a \* l;

cout <<"\t\"THE VOLUME OF box\" = "<< v << endl;

}



Q: Write a program to find a greatest number by conditional operators.

#include <iostream>

using namespace std;

int main()

{

int a,b,c,greatest;

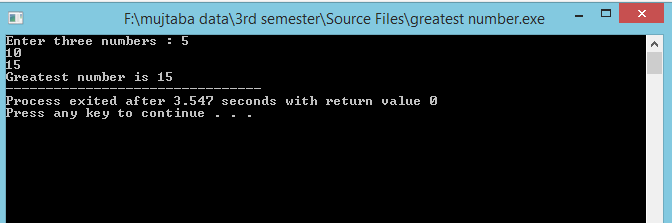
cout<<"Enter three numbers : ";

cin>>a>>b>>c;

greatest=(a>b&&a>c)?a:(b>c)?b : c;

cout<<"Greatest number is "<<greatest;

}



Q: Write a program to swap number without any third variable..

#include<iostream>

using namespace std;

void swap(int &a, int &b)

{

b = a + b;

a = b - a;

b = b - a;

}

int main()

{

int a, b;

cout << "Enter two numbers to be swapped : ";

cin >> a >> b;

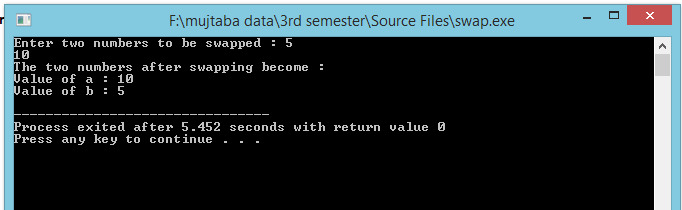
swap(a, b);

cout << "The two numbers after swapping become :" << endl;

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

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

}



Q: Write a program to that read character and print Ascii code..

#include <iostream>

using namespace std;

int main()

{

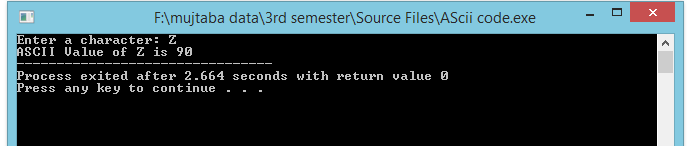
char c;

cout << "Enter a character: ";

cin >> c;

cout << "ASCII Value of " << c << " is " << int(c);

}



Q: Write a program to find a real root of quadatric equation.

#include<iostream>

#include<math.h>

using namespace std;

int main()

{

float a,b,c,d,root1,root2;

cout<<"Enter value of a, b and c : ";

cin>>a>>b>>c;

d=b\*b-4\*a\*c;

if(d==0)

{

root1=(-b)/(2\*a);

root2=root1;

cout<<"Roots are real & equal";

}

else if(d>0)

{

root1=-(b+sqrt(d))/(2\*a);

root2=-(b-sqrt(d))/(2\*a);

cout<<"Roots are real & distinct";

}

else

{

root1=(-b)/(2\*a);

root2=sqrt(-d)/(2\*a);

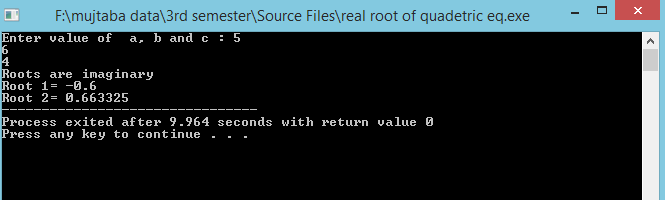
cout<<"Roots are imaginary";

}

cout<<"\nRoot 1= "<<root1<<"\nRoot 2= "<<root2;

return 0;

}



Q:Write a program to calculate the total marks and percentage of five subjects.

#include<iostream>

using namespace std;

int main()

{

int sub,marks,n,i,sum=0,tmp=0,arr[10],Percentage;

cout<<"\nEnter number of subject : \n";

cin>>n;

tmp=n\*100;

cout<<"\nEnter The Marks: \n";

for(i=0;i<n;i++)

{

cin>>arr[i];

}

for(i=0;i<n;i++)

{

sum=sum+arr[i];

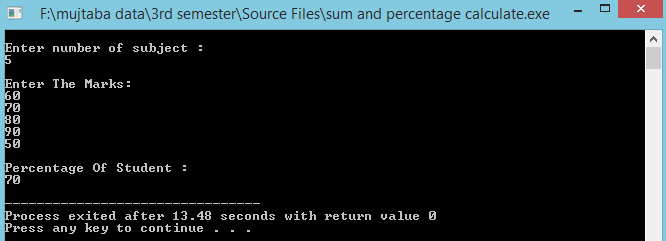
}

Percentage = ( sum \* 100 ) / tmp;

cout<<"\nPercentage Of Student : \n"<< Percentage<<endl;

return (0);

}



Q:Write a program that convert upper case character to lower case..

#include<iostream>

using namespace std;

int main()

{

char ch;

cout<<"Enter a character in uppercase : ";

cin>>ch;

ch=ch+32;

cout<<"character in lowercase = "<<ch;

}