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**Lab#02.**

**Github:**

**TASK 1**

#include<iostream>

#include<math.h>

using namespace std;

int main()

{

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

cout<<"quadratic eq is ax\*x+bx+c=0";

cout<<"\nEnter values of a,b abd c:";

cin>>a>>b>>c;

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

if(d>0)

{

cout<<"\Two real and distinct roots";

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

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

cout<<"\nRoots are"<<root1<<"and"<<root2;

}

else if(d==0)

{

cout<<"\nTwo real and equal roots";

root1=root2=-b/(2\*a);

cout<<"\nroots are"<<root1<<"and"<<root2;

}

else

{

cout<<"\nRoots are comlex and imagninary";

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

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

cout<<"\nRoots are"<<realpart<<"+"<<imaginarypart<<"i and"<<realpart<<"-"<<imaginarypart<<"i";

}

}

**TASK 2**

#include<iostream>

using namespace std;

int main()

{

int a;

cout<<"WELCOME TO UOL";

return 0;

}

**TASK 3**

#include<iostream>

using namespace std;

int main()

{

char c;

cout<<"enter a character";

cin>>c;

cout<<"ASCII value of:"<<c<<"is"<<(int)c;

return 0;

}

**TASK 4**

#include<iostream>

using namespace std;

int main()

{

int num, i=1,factorial=1;

cout<<"enter value";

cin>>num;

while(i<=num)

{

factorial \*=i;

++i;

}

cout<<"factorail of"<<num<<"="<<factorial;

return 0;

}

**TASK 5**

#include<iostream>

using namespace std;

int main()

{

int celcius,farh;

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

cin>>celcius;

farh=(celcius\*1.8)/32;

cout<<"the temperature in farh is:"<<farh<<endl;

return 0;}

**TASK 6**

#include<iostream>

using namespace std;

int main()

{

int s,n;

cout<<"enter value of a";

cin>>n;

for(int i=1;i<=n;i++)

{

if(i%2==0)

{

cout<<"Even number"<<i;

s=s+1;

}

else

{

cout<<"odd number"<<i;

}

cout<<"sum of all even numbers is:"<<s<<endl;

}

}