## ~\OneDrive\Desktop\p1.c++

```
#include<iostream>
 2 #include <iomanip>
 3 #include<cmath>
   using namespace std;
 4
 5
    int main()
 6
    {//1
 7
    char name[15];
 8
    int age;
 9
    cout<<"enter your name:"<<endl;</pre>
10 | cin>>name;
11
   cout<<"enter your age:"<<endl;</pre>
12
   cin>>age;
    cout<<"hello "<<name<<", you are "<<age<<" years old"<<endl;</pre>
13
14 //2
15 int a,b;
16 cout<<"enter 2 numbers:"<<endl;</pre>
17
    cin>>a>>b;
18 cout<<"sum is:"<<a+b<<endl;</pre>
19
    //3
20 float a,b;
21 char c;
22 cout<<"enter 2 numbers:"<<endl;</pre>
23 | cin>>a>>b;
    cout<<"enter your choice:"<<endl;</pre>
24
25
    cin>>c;
    cout << fixed << setprecision(2);</pre>
26
27
    switch(c){
28
         case '+':cout<<a+b;</pre>
29
        break;
        case '-':cout<<a-b;</pre>
30
31
        break;
        case '*':cout<<a*b;</pre>
32
33
        break;
        case '/':cout<<(a/b);</pre>
34
35
36
        default:cout<<"invalid choice";</pre>
37
        break;
38
39
    cout << fixed << setprecision(2);</pre>
    float a,b;
40
    cout<<"enter 2 nums:"<<endl;</pre>
41
42 cin>>a>>b;
43
    cout<<a/b<<endl;</pre>
44 int ci,p,r,n,t;
45
    cin>>p>>r>>n>>t;
    ci=pow((1+(r/n)),n*t);
46
    cout<<ci<<endl;</pre>
47
48
```

96 cin>>a>>b>>c;

98 **if**(r>**0**){

97 int r=pow(b,2)-4\*a\*c;

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 99
          cout<<"the roots are real and unequal"<<endl;</pre>
100
           cout<<"roots are:"<<endl;</pre>
101
          cout<<((-b)+pow(r,0.5))/a<<"\n"<<((-b)-pow(r,0.5))/a<<endl;
102
103
      else if(r==0){
104
          cout<<"the roots are real and equal"<<endl;</pre>
           cout<<"roots are:"<<endl;</pre>
105
           cout<<((-b)+pow(r,0.5))/a<<"\n"<<((-b)-pow(r,0.5))/a<<endl;
106
107
108
      else{
          cout<<"the roots are imaginary"<<endl;</pre>
109
110
      //ATM
111
112
      int choice,balance,b,label 1;
113
      label 1:
114
      cout<<"choice (1):withdrawal\nchoice (2):deposit\nchoice (3):balance inquiry\nchoice (4):exit"</pre>
      cout<<"enter balance and choice:"<<endl;</pre>
115
116
      return;
      cin>>balance>>choice;
117
118
      switch (choice){
          case 1:cout<<"enter amount for withdrawal:"<<endl;</pre>
119
120
121
          cout<<"ammount successfully withdrawed"<<endl;</pre>
          if(balance>b)
122
123
124
             cout<<"ammount withdrawed:"<<b<<endl;</pre>
125
             balance-=b;
126
             goto label_1;
127
          }
128
          else
129
130
             cout<<"not sufficient balance"<<endl;</pre>
131
             goto label 1;
          }
132
133
          break:
134
          case 2:cout<<"enter amount for deposit:"<<endl;</pre>
135
          cin>>b;
136
          cout<<"ammount successfully deposit"<<endl;</pre>
137
          cout<<"ammount deposit:"<<b<<endl;</pre>
138
          balance+=b;
139
          goto label_1;
140
          break;
141
          case 3:cout<<"balance:"<<balance<<endl;</pre>
142
          goto label 1;
143
          break;
           case 4:exit(0);
144
145
          default:cout<<"invalid choice"<<endl;</pre>
146
          goto label_1;
147
          break;
```

```
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 148
     //14
149
150 int a,b,c;
      cout<<"enter 3 sides of triangle:"<<endl;</pre>
 151
152 cin>>a>>b>>c;
      if(a<b+c||b<a+c||c<b+a){
153
          if(a==b&&b==c&&c==a){
154
 155
               cout<<"equilateral triangle"<<endl;</pre>
156
          else if(a!=b&&b!=c&&c!=a){
157
158
               cout<<"scaler triangle"<<endl;</pre>
 159
          }
160
          else{
 161
               cout<<"isoceles triangle"<<endl;</pre>
162
          }
 163
      }
164
      else{
165
           cout<<"not a triangle"<<endl;</pre>
166
      }
      //15
 167
168 int a,b,c,d;
      cout<<"provide 4 numbers:"<<endl;</pre>
169
170
      cin>>a>>b>>c>>d;
      cout<<"result is "<<(a^b)+(c&d)<<endl;</pre>
171
172
 173
174
     }
```

175