~\OneDrive\Desktop\p1.c++

```
#include<iostream>
 2
   #include <iomanip>
 3
   #include<cmath>
   using namespace std;
 4
    int main(){
 5
 6
    //16
 7
    int a,b;
 8
    cin>>a>>b;
 9
    bool r=(a^b)<0;
    if(r==1){
10
11
         cout<<"oppsite sign"<<endl;</pre>
12
    }
13
    else{
14
         cout<<"same sign"<<endl;</pre>
15
    }
   //17
16
17
    float a,b,r=0,c=0;
18 | cin>>a>>b;
19
    while(r>=b){
20
        r=a-b;
21
        C++;
22
23
    cout<<c<<endl;</pre>
   //18
24
25
    int num;
26 cin>>num;
27
   int r1=num>>1;
28
    int r2=num<<2;</pre>
    cout<<"right shift:"<<r1<<endl;</pre>
29
    cout<<"left shift:"<<r2<<endl;</pre>
30
   //19
31
32
    int marks[5];
33
    cout<<"enter marks for 5 subjects:"<<endl;</pre>
    for(int i=0;i<5;i++){</pre>
34
         cout<<"enter marks for subject "<<i+1<<endl;</pre>
35
36
         cin>>marks[i];
37
    }
    int sum=0;
38
39
    for(int i=0;i<5;i++){</pre>
40
         sum+=marks[i];
41
42
    if(sum>=90){
43
         cout<<"A grade"<<endl;</pre>
44
    }
45
    else if(sum>=70){
46
         cout<<"B grade"<<endl;</pre>
47
    }
    else if(sum>=60){
48
```

```
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                                                                p1.c++
           cout<<"C grade"<<endl;</pre>
  49
  50
      }
  51
      else if(sum>=50){
  52
           cout<<"D grade"<<endl;</pre>
  53
      }
  54
      else{
  55
           cout<<"fail"<<endl;</pre>
  56
      }
      //20
  57
  58 int c;
      float a,b;
  59
      do{
  60
       cout<<"The following are the choices for calculating the values"<<endl;</pre>
  61
  62
       cout<<"(1)ADDITION\n(2)SUBTRACTION\n(3)MULTIPLICATION\n(4)DIVISION\n(4)EXIT"<<endl;</pre>
       cout<<"enter 2 numbers:"<<endl;</pre>
  63
  64
       cin>>a>>b;
       cout<<"enter your choice:"<<endl;</pre>
  65
       cin>>c;
  66
         switch(c){
  67
  68
            case 1:cout<<"Addition is:"<<a+b<<endl;</pre>
  69
            break;
  70
            case 2:cout<<"Subtraction is:"<<a-b<<endl;</pre>
  71
            break;
  72
            case 3:cout<<"Multiplication is:"<<a*b<<endl;</pre>
  73
            break;
            case 4:cout<<"Division is:"<<a/b<<endl;</pre>
  74
  75
            break;
  76
            case 5:exit(0);
  77
            break;
  78
            default:cout<<"invalid choice"<<endl;</pre>
  79
            break;
  80
           }
      }while(c!=5);
  81
  82
     //21
  83
      int y;
  84
      cout<<"enter the year to check if the year is leap year or not:"<<endl;</pre>
  85
      cin>>y;
      if((y%4==0&&y%100!=0)||y%400==0){
           cout<<"year is leap year"<<endl;</pre>
  87
  88
      }
      else{
  89
           cout<<"the year is not the leap year"<<endl;</pre>
  90
      }
  91
      //22
  92
  93 | int n;
     cout<<"enter the number of numbers to be in fibonacci series:"<<endl;</pre>
  95
      cin>>n;
  96 int arr[n];
      arr[0]=1;
  97
  98 arr[1]=1;
```

int max=arr[0],min=arr[0];

for(int i=0;i<n;i++){
 if(max<arr[i]){</pre>

145

146

147

148

}

```
149
              max=arr[i];
150
          }
151
     }
     for(int i=0;i<n;i++){</pre>
152
          if(min>arr[i]){
153
              min=arr[i];
154
155
          }
156
     }
     cout<<"sum is "<<sum<<endl;</pre>
157
158
     cout<<"max is "<<max<<endl;</pre>
159
     cout<<"min is "<<min<<endl;</pre>
160
     }
161
```