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172.17.54.47/cpp_prog
31

Questions
69. Write a C++ program to overload a function to add two integer numbers and two floating-point numbers separately.

Absolute | Power
Sort | Factorial
Arrays | Sum
Area | Concatenate
Maximum | Plus Equal
Add | (-)
() | []
* | Equal
<< | Plus
Increment

Run | Save

```cpp
#include<iostream>
using namespace std;
int add(int);
int add(int,int);
float add(float,int,int);
int main()
{
  int s,r,b;
  float h;
  cin>>s>>r>>b>>h;
  cout<<"addition 1: "<<add(s)<<endl;
  cout<<"addition 2: "<<add(r,b)<<"\n";
  cout<<"addition 3: "<<add(h,r,b);
  return 0;
}
int add(int s)
{
  return (s+s);
}
int add(int r,int b)
{
  return (r+b);
}
float add(float h,int r,int b)
{
  return (h+r+b);
}
```

```
10 5 5 4.7
```

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Questions
68. Write a C++ program to overload the += operator to add two objects of a user-defined class.

Absolute
Power
Sort
Factorial
Arrays
Sum
Area
Concatenate
Maximum
Plus Equal
Add
(-)
()
[]
*
Equal
<<
Plus
Increment

Run Save

```
#include<iostream>
using namespace std;
class num
{
  private:
  int n;
  public:
  void getnum(int x)
  {
    n=x;
  }
  void dispnum(void)
  {
    cout<<"addition is: "<<n;
  }
  num operator+=(num&obj)
  {
    num x;
    x.n=this->n+obj.n;
    return (x);
  }
};
int main()
{
  num num1,num2,sum;
  num1.getnum(100);
  num2.getnum(20);
  sum=num1+=num2;
  sum.dispnum();
  cout<<endl;
  return 0;
}
```

```
Your INPUT go's here! Give only values. do not give like a=10
```

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Questions
70. Write a C++ program to overload a function to find the maximum value from two integer numbers, two floating-point numbers, and two characters separately.

Absolute | Power
Sort | Factorial
Arrays | Sum
Area | Concatenate
Maximum | Plus Equal
Add | (-)
() | []
* | Equal
<< | Plus
Increment

Run Save

```cpp
#include<iostream>
using namespace std;
int max(int,int);
float max(float,float);
int main()
{
  int a,b;
  float c,d;
  cin>>a>>b>>c>>d;
  cout<<"maximum value 1: "<<max(a,b)<<endl;
  cout<<"maximum value 2: "<<max(c,d);
  return 0;
}
int max(int a,int b)
{
  if(a>b)
    return a;
  else
    return b;
}
float max(float c,float d)
{
  if(c>d)
    return c;
  else
    return d;
}
```

```
1208 213 33.43 33.44
```

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Questions
72. Write a C++ program to overload a function to calculate the area of a square, a rectangle, and a circle separately.

Absolute
Power
Sort
Factorial
Arrays
Sum
Area
Concatenate
Maximum
Plus Equal
Add
(-)
0
[]
*
Equal
<<
Plus
Increment

Run Save

```
#include<iostream>
using namespace std;
int square(int);
int rect(int,int);
float circle(float,int);
int main()
{
  int a,l,b,r;
  float pi=3.14;
  cin>>a>>l>>b>>r;
  cout<<"area of square: "<<square(a)<<"\n";
  cout<<"area of rectangle: "<<rect(l,b)<<"\n";
  cout<<"area of cirle: "<<circle(pi,r);
  return 0;
}
int square(int a)
{
  return (a*a);
}
int rect(int l,int b)
{
  return (l*b);
}
float circle(float pi,int r)
{
  return (pi*r*r);
}
```

```
4
5 6
10
```

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Questions
73. Write a C++ program to overload a function to find the factorial of an integer number and the factorial of a floating-point number separately.

Absolute | Power
Sort | Factorial
Arrays | Sum
Area | Concatenate
Maximum | Plus Equal
Add | (-)
() | []
* | Equal
<< | Plus
Increment

Run | Save

```cpp
#include<iostream>
using namespace std;
int fact(int);
float fact(float);
int main()
{
  int n;
  float m;
  cin>>n>>m;
  cout<<"factorial of "<<n<<" = "<<fact(n)<<endl;
  cout<<"factorial of "<<m<<" = "<<fact(m);
  return 0;
}
int fact(int n)
{
  if(n>1)
    return n*fact(n-1);
  else
    return 1;
}
float fact(float m)
{
  if(m>1)
    return m*fact(m-1);
  else
    return 1;
}
```

```
5
4.9
```

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Questions
77. Write a C++ program to overload a function to calculate the power of an integer number and the power of a floating-point number separately.

Absolute | Power
Sort | Factorial
Arrays | Sum
Area | Concatenate
Maximum | Plus Equal
Add | (-)
() | []
* | Equal
<< | Plus
Increment

Run | Save

```
#include<iostream>
#include<cmath>
using namespace std;
int power(int,int);
float power(float,int);
int main()
{
  int n,m,c;
  float k;
  cin>>n>>m;
  cin>>k>>c;
  cout<<"power of "<<n<<" and "<<m<<" = "<<pow(n,m)<<en
  cout<<"power of "<<k<<" and "<<c<<" = "<<pow(k,c);
  return 0;
}
int power(int n,int m)
{
  int i,product=n;
  for(i=0;i<m-1;i++)
  {
    product*=n;
  }
  return product;
}
float product(float k,int c)
{
  int i,product=k;
  for(i=0;i<c-1;i++)
  {
    product*=k;
  }
  return product;
}
```

```
2 3 3.5 6
```

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Questions
78. Write a C++ program to overload a function to find the absolute value of an integer number and the absolute value of a floating-point number separately.

Absolute | Power
Sort | Factorial
Arrays | Sum
Area | Concatenate
Maximum | Plus Equal
Add | (-)
() | []
* | Equal
<< | Plus
Increment

Run Save

```cpp
#include<iostream>
using namespace std;
int ab(int);
float ab(float);
int main()
{
  int n;
  float m;
  cin>>n>>m;
  cout<<"absolute of "<<n<<" = "<<ab(n)<<"\n";
  cout<<"absolute of "<<m<<" = "<<ab(m);
  return 0;
}
int ab(int n)
{
  if(n>0)
    return n;
  else
    return n*(-1);
}
float ab(float m)
{
  if(m>0)
    return m;
  else
    return m*(-1);
}
```

```
-3
-5.2
```