**NUMBER 1**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int a;

int b;

int c;

private:

};

void c1::input()

{

cout << "INPUT VALUE = ";

cin >> a;

cout << "INPUT VALUE = ";

cin >> b;

cout << "INPUT VALUE = ";

cin >> c;

}

void c1::process()

{

cout << "AVERAGE = " << (a+b+c)/3;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 2**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int CELCIUS;

private:

};

void c1::input()

{

cout << "INPUT CELCIUS TEMPERATURE = ";

cin >> CELCIUS;

}

void c1::process()

{

cout << "FAHRENHEIT = " << (CELCIUS \*1.8) + 32;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 3**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int days;

private:

};

void c1::input()

{

cout << "INPUT NUMBER of DAYS = ";

cin >> days;

}

void c1::process()

{

cout << "SECONDS = " << (days\*24)\* (60\*60);

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 4**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int inches;

private:

};

void c1::input()

{

cout << "INPUT NUMBER OF INCHES = ";

cin >> inches;

}

void c1::process()

{

cout << "FEET = " << inches / 12;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 5**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

float a;

float b;

private:

};

void c1::input()

{

cout<<"FIRST VALUE = ";

cin>>a;

cout<<"SECOND VALUE = ";

cin>>b;

}

void c1::process()

{

cout<< "SUM = " << a + b;

cout<< "\nDIFFERENCE = " << a-b;

cout<< "\nPRODUCT = " << a \* b;

cout<< "\nQUOTIENT = " << a / b;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 6**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

float a;

float b;

private:

};

void c1::input()

{

cout<<"RECTANGLE LENGTH = ";

cin>>a;

cout<<"RECTANGLE WIDTH = ";

cin>>b;

}

void c1::process()

{

cout<< "PERIMETER = " << a + b + a + b;

cout<< "\nAREA = " << a\*b;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 7**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

float a;

float b;

float c;

private:

};

void c1::input()

{

cout<<"ITEM VALUE = ";

cin>>a;

cout<<"ITEM VALUE = ";

cin>>b;

cout<<"ITEM VALUE = ";

cin>>c;

}

void c1::process()

{

cout<< "TOTAL = " << a + b + c;

cout<< "\nTOTAL TAX = " << (a + b + c) \* .04;

cout<< "\nTOTAL INCLUDING TAX = " << ((a + b + c) \* .04) + (a + b + c);

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 8**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int kil;

private:

};

void c1::input()

{

cout << "INPUT NUMBER of KILOMETERS = ";

cin >> kil;

}

void c1::process()

{

cout << "MILES = " << kil \* .62137;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

NUMBER 9

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int pounds;

private:

};

void c1::input()

{

cout << "INPUT NUMBER of POUNDS = ";

cin >> pounds;

}

void c1::process()

{

cout << "KILOGRAMS = " << pounds \* .4539;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 10**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int rad;

private:

};

void c1::input()

{

cout << "INPUT RADIUS VALUE = ";

cin >> rad;

}

void c1::process()

{

cout << "CIRCLE AREA = " << 2 \* 3.14 \* rad;

cout << "\nCIRCLE CIRCUMFERENCE = " << rad \* 3.14 \* rad;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 11**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

float s;

float p;

float y;

private:

};

void c1::input()

{

cout << "PURCHASE VALUE = ";

cin >> p;

cout << "SALVAGE VALUE = ";

cin >> s;

cout << "NUMBER OF YEARS = ";

cin >> y;

}

void c1::process()

{

cout << "YEARLY DEPRECIATION = " << (p-s)/y;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 12**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

float dist;

float gal;

float cost;

private:

};

void c1::input()

{

cout << "TRAVEL DISTANCE = ";

cin >> dist;

cout << "FUEL EFFICIENCY PER GALLON = ";

cin >> gal;

cout << "COST PER GALLON = $";

cin >> cost;

}

void c1::process()

{

cout << "COST OF COMMUTE = $" << (dist / gal) \* cost;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 13**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int hours;

float watts;

float discount;

float utility;

float bill;

private:

};

void c1::input()

{

cout << "KIL-WATTS CONSUMED PER HOUR = ";

cin >> hours;

}

void c1::process()

{

watts = .16;

utility = .03;

bill = (hours\*watts)+(utility\*(hours\*watts));

discount = (hours\*watts)\*.1;

cout << "ELECTRIC BILL BEFORE TAX AND DISCOUNT = $" << hours\*watts;

cout << "\nUTILITY TAX = $" << (hours\*watts)\*utility;

cout << "\nDISCOUNT = $" << (hours\*watts)\*.1;

cout << "\nELECTRIC BILL = $" << bill-discount;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 14**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

float year;

float retro;

private:

};

void c1::input()

{

cout << "ANNUAL PAY = $";

cin >> year;

}

void c1::process()

{

retro = .076;

cout << "RETRO-PAY = $" << (year/2)\*retro;

cout << "\nNEW SALARY = $" << year\*1.076;

cout << "\nMONTHLY SALARY = $" << (year\*1.076)/12;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 15**

#include <iostream>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int a;

int b;

private:

};

void c1::input()

{

cout << "FIRST 3 DIGIT VALUE = ";

cin >> a;

cout << "SECOND 3 DIGIT VALUE = ";

cin >> b;

}

void c1::process()

{

cout << "PRODUCT OF " << a << " AND " << b << " = " << a\*b;

cout << "\nQUOTIENT OF " << a << " AND " << b << " = " << a/b;

cout << "\nREMAINDER = " << a % b;

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 16**

**NUMBER 17**

#include <iostream>

#include <math.h>

using namespace std;

class c1doc

{

public:

void input();

void process();

void output();

int a;

int b;

private:

};

void c1::input()

{

cout << "FIRST TRIANGLE LEG = ";

cin >> a;

cout << "SECOND TRIANGLE LEG = ";

cin >> b;

}

void c1::process()

{

cout << "AREA = " << (a\*b)/2;

cout << "\nHYPOTENUSE = " << sqrt(pow(a,2) + pow(b,2));

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}

**NUMBER 18**

#include <iostream>

#include <math.h>

using namespace std;

class c1

{

public:

void input();

void process();

void output();

int a;

int b;

private:

};

void c1::input()

{

cout << "FIRST VALUE = ";

cin >> a;

cout << "SECOND VALUE = ";

cin >> b;

}

void c1::process()

{

cout << " " << a;

cout << "\n x" << b;

cout << "\n ----------";

cout << "\n " << (b%10) \* a;

cout << "\n " << ((b/10)%10)\*a;

cout << "\n " << (((b/10)/10)%10)\*a;

cout << "\n ----------";

cout << "\n " << (a\*b);

}

void c1::output()

{

}

int main()

{

c1 o1;

o1.input();

o1.process();

o1.output();

}