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Preview page 1 COMP 116

Object Oriented Programming

Lecture 1

## Outline

Introducing Chrotesale.co.uk

President 2 of 35

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- A sample C++ program
- Reference Variables
- Inline Functions
- Function Overloading
- Comparison between C and C++

## Reference Variables

```
void swap(float&,float&le.co.uk)

introin()

15 of 35

Page at a = 22.2 b - 44
                        cout << "a = " << a << ", b = " << b << "\n";
                        swap(a,b);
                        cout << "a = " << a << ", b = " << b << "\n";
                   void swap(float& x,float& y)
                        // exchanges the values of x and y:
                        float temp = x;
                        x = y;
                        y = temp;
```

## Reference Variables contd...

```
void f(int,int&,const int&); le.co.uk
int main()
{
     a = " << a << ", b = " << b << ", c = " << c<<"\n";
     f(a.b.c):
     cout << "a = " << a << ", b = " << b << ", c = " << c<<"\n";
     f(2*a-3,b,c);
     cout << "a = " << a << ", b = " << b << ", c = " << c<<"\n";
void f(int x, int& y, const int& z)
     X += Z;
     V += Z;
     cout << "x = " << x << ", y = " << y << ", z = " << z<<"\n" ;
```

## Simple Rules for Function Overloading

- You can have more that one function with same function with but

   Novof arguments must be changed
  - - Types of arguments must be changed
    - Sequence of arguments must be changed

return type has no significance in function overloading