

CS1004 OOP
Functions

Function

```
int main()
 cout << "This is
main function.\n";
 return 0;
```

Function

```
• void Message(int x);
• int main()
     cout << "This is</pre>
 main function.\n";
    Message(10);
    return 0;
void Message(int x)
    if (x > 0)
     cout << "X is
 greater than
 zero.\n";
    return;
```

- Declaration
- Call
- Definition
- void return type
- Message Function name
- int x parameter

Function return type

Declaration with definition

```
• int factorial(int x)
   • int res=1;
    • for(int i=1;i<=x;i++)
        ■ Res*=i;
    • return res
• int main()
   • int z=5;
   • int x=factorial(z);
   return 0;
```

Multiple parameters

```
• int power(int x, int y)
• {
    • int res=1;
    • for(int i=1;i<=y;i++)
        res*=x;
    • return res;
• int main()
    • int y=5, z=6;
    • int x=power(y,z);
    • return 0;
• }
```