

## Compte Rendu Exercice 1

1)

```
#include <iostream>

class Animal {

    public:
        void play(){
            std::cout << "L'animal joue" << std::endl;
        };

};

class Cat : public Animal{

    public:
        void meow(){
            std::cout << "Le chat miaule" << std::endl;
        };

};

class Dog : public Animal{

    public:
        void bark(){
            std::cout << "Le chien aboie" << std::endl;
        };

};

int main(){

    Cat c; Dog d;
    c.play(); d.play();
    c.meow(); d.bark();
}
```

2)

```
PS C:\Users\leolo\OneDrive\Bureau\POO_Project_2\Ex_1\output> & .\'main.exe'  
L'animal joue  
L'animal joue  
Le chat miaule  
Le chien aboie
```

3)

```
main.cpp M animals.cpp U animals.hpp U X  
POO_Project_2 > Ex_1 > animals.hpp > ...  
1  #ifndef ANIMALS_HPP  
2  #define ANIMALS_HPP  
3  
4  #include <iostream>  
5  
6  class Animal {  
7  public:  
8      void play();  
9  };  
10  
11  class Cat : public Animal {  
12  public:  
13      void meow();  
14  };  
15  
16  class Dog : public Animal {  
17  public:  
18      void bark();  
19  };  
20  
21  #endif
```

```
main.cpp M animals.cpp U X animals.hpp U  
POO_Project_2 > Ex_1 > animals.cpp > ...  
1  #include "animals.hpp"  
2  
3  void Animal::play() {  
4      std::cout << "L'animal joue" << std::endl;  
5  };  
6  
7  void Cat::meow() {  
8      std::cout << "Le chat miaule" << std::endl;  
9  };  
10  
11  void Dog::bark() {  
12      std::cout << "Le chien aboie" << std::endl;  
13  };
```

4)

```
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> g++ -o main main.cpp animals.cpp
>>
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> ./main
L'animal joue
L'animal joue
Le chat miaule
Le chien aboie
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> █
```

5)

6)

```
Le chien aboie
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> g++ -c -o main.o main.cpp
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> g++ -c -o animals.o animals.cpp
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> g++ -o main main.o animals.o
PS C:\Users\leolo\OneDrive\Bureau\P00_Project_2\Ex_1> ./main
L'animal joue
L'animal joue
Le chat miaule
Le chien aboie
█
```