

Question 1

```
#include <iostream>

using namespace std;

class Animal {
public:
    void eat() {
        cout << "Animal is eating." << endl;
    }

    void play() {
        cout << "Animal is playing." << endl;
    }
};

class Cat : public Animal {
public:
    void meow() {
        cout << "Cat says: Meow." << endl;
    }
};

class Dog : public Animal {
public:
    void bark() {
        cout << "Dog says: waf." << endl;
    }
};

int main() {
    Cat cat;
    Dog dog;

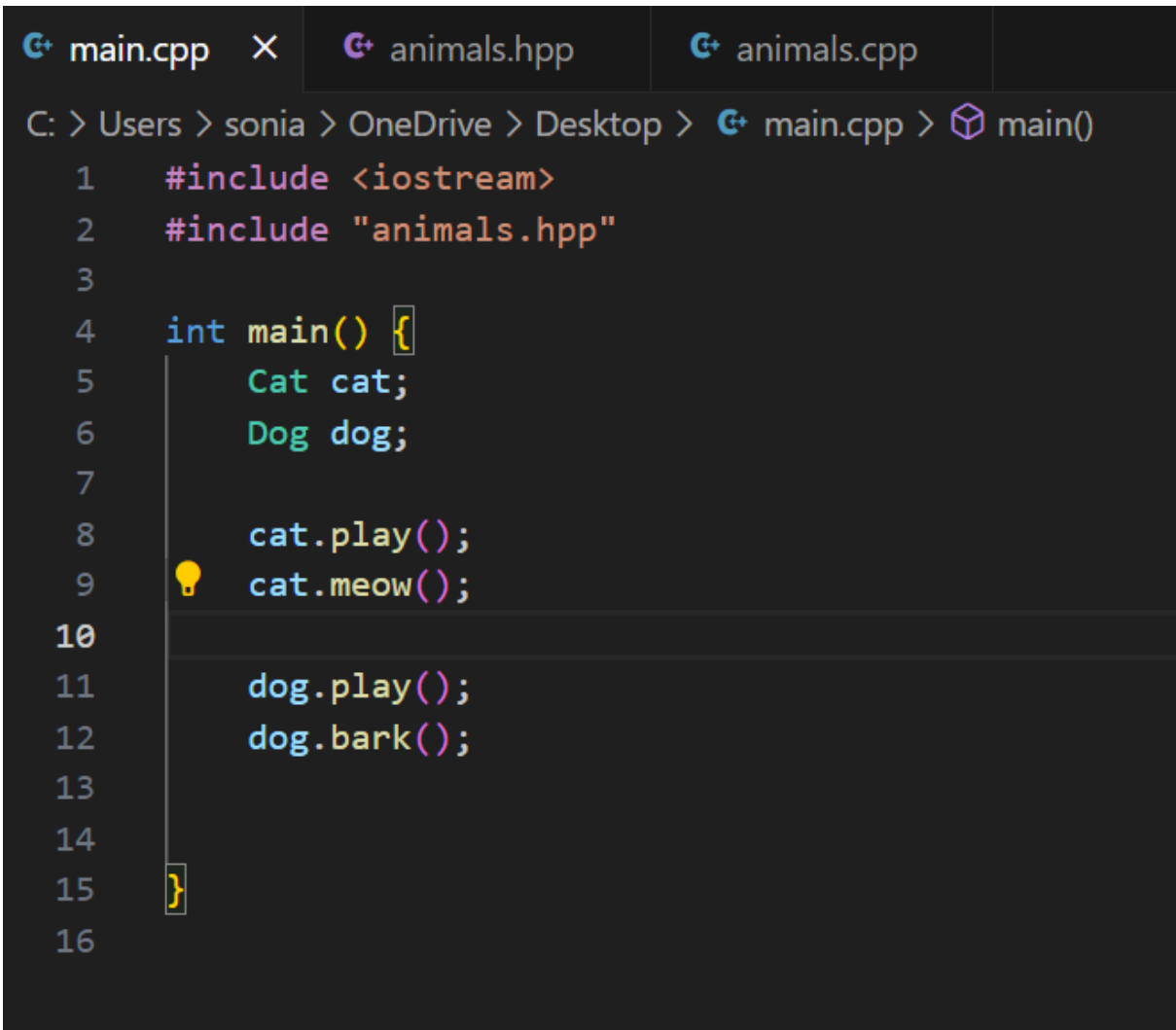
    cat.play();
    cat.meow();

    dog.play();
    dog.bark();
}
```

Question 2

```
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$ g++ -Wall -Wextra -ansi -pedantic -o hello azizitetu2.cpp
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$ ./hello
Animal is playing.
Cat says: Meow.
Animal is playing.
Dog says: waf.
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$
```

Question 3



```
main.cpp × animals.hpp animals.cpp
C: > Users > sonia > OneDrive > Desktop > main.cpp > main()
1  #include <iostream>
2  #include "animals.hpp"
3
4  int main() {
5      Cat cat;
6      Dog dog;
7
8      cat.play();
9      cat.meow();
10
11     dog.play();
12     dog.bark();
13
14
15 }
16
```

main.cpp

animals.hpp X

animals.cpp

C: > Users > sonia > OneDrive > Desktop > animals.hpp > ...

```
1  # ifndef ANIMALS_HPP__
2  # define ANIMALS_HPP__
3
4  class Animal {
5  public:
6      void eat();
7      void play();
8  };
9
10 class Cat : public Animal {
11 public:
12     void meow();
13 };
14
15 class Dog : public Animal {
16 public:
17     void bark();
18 };
19
20 #endif
21
```

```
main.cpp animals.hpp animals.cpp X
C: > Users > sonia > OneDrive > Desktop > animals.cpp > ...
1  #include <iostream>
2  #include "animals.hpp"
3
4  void Animal::eat() {
5      std::cout << "Animal is eating" << std::endl;
6  }
7
8  void Animal::play() {
9      std::cout << "Animal is playing" << std::endl;
10 }
11
12 void Cat::meow() {
13     std::cout << "Cat says: Meow" << std::endl;
14 }
15
16 void Dog::bark() {
17     std::cout << "Dog says: Bark" << std::endl;
18 }
19
20
```

Question 4

```
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$ g++ main.cpp animals.cpp -o main
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$ ./main
Animal is playing
Cat says: Meow
Animal is playing
Dog says: Bark
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$
```

Question 5

```
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$ rm main
```

Question 6

```
sonia1234@MSI:/mnt/c/Users/sonia/OneDrive/Desktop$ g++ -c main.cpp -o main.o
g++ -c animals.cpp -o animals.o
g++ main.o animals.o -o main
./main
Animal is playing
Cat says: Meow
Animal is playing
Dog says: Bark
```