Assignment on: Inheritance

Name: Abrar Rahman

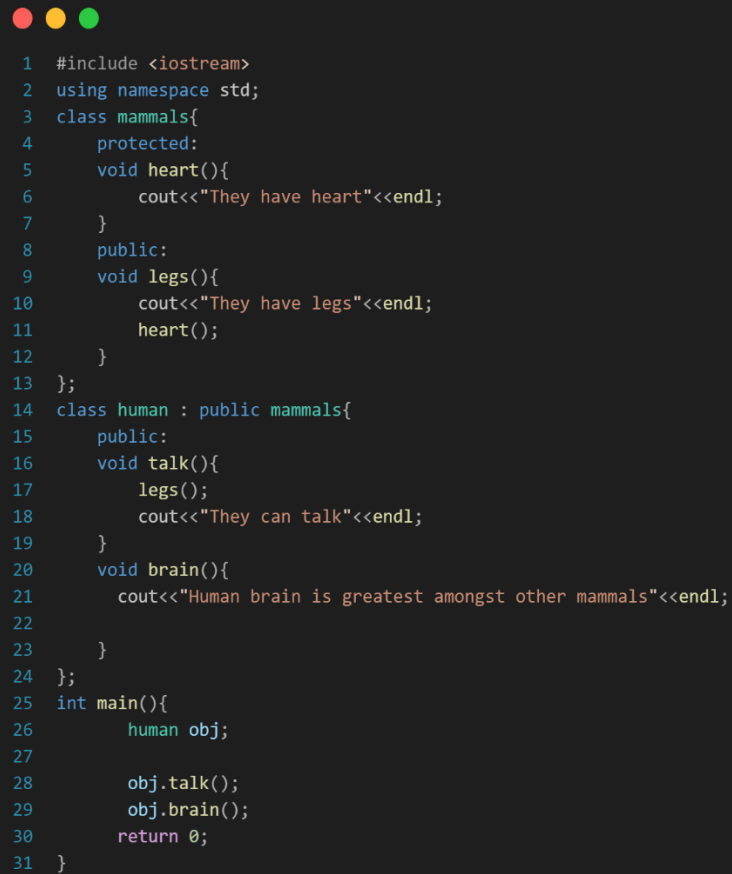Id:221071005(3rd semester)

Modes of Inheritance	Public	Private	Protected
Public	Work	Work(m)	Work(m)
Private	Work(m)	Work(m)	Work(m)
Protected	Work(m)	Work(m)	Work(m)

```cpp
1   #include <iostream>
2   using namespace std;
3   class mammals{
4       public:
5       void heart(){
6           cout<<"They have heart"<<endl;
7       }
8       void legs(){
9           cout<<"They have legs"<<endl;
10      }
11  };
12  class human : public mammals{
13      public:
14      void talk(){
15          cout<<"They can talk"<<endl;
16      }
17      void brain(){
18        cout<<"Human brain is greatest amongst other mammals"<<endl;
19      }
20  };
21  int main(){
22          human obj;
23          obj.heart();
24          obj.talk();
25          obj.brain();
26
27          return 0;
28  }
```

```cpp
#include <iostream>
using namespace std;
class mammals{
    private:
    void heart(){
        cout<<"They have heart"<<endl;
    }
    public:
    void legs(){
        cout<<"They have legs"<<endl;
    }
};
class human : public mammals{
    public:
    void talk(){
        legs();
        cout<<"They can talk"<<endl;
    }
    void brain(){
      cout<<"Human brain is greatest amongst other mammals"<<endl;

    }
};
int main(){
        human obj;
        obj.talk();
        obj.brain();
       return 0;
}
```

```cpp
#include <iostream>
using namespace std;
class mammals{
    protected:
    void heart(){
        cout<<"They have heart"<<endl;
    }
    public:
    void legs(){
        cout<<"They have legs"<<endl;
        heart();
    }
};
class human : public mammals{
    public:
    void talk(){
        legs();
        cout<<"They can talk"<<endl;
    }
    void brain(){
      cout<<"Human brain is greatest amongst other mammals"<<endl;

    }
};
int main(){
        human obj;

        obj.talk();
        obj.brain();
        return 0;
}
```

```cpp
#include <bits/stdc++.h>
using namespace std;
//Mode private component public
class ProgrammingLanguage {
    public:
    int oop(){
        cout<<"CPP,Java<python are few famous oop languages"<<endl;
    }
    int structured(){
        cout<<"C,Algol,Kotlin are few famous structured languages"<<endl;
    }

};
class HumanLanguages :private ProgrammingLanguage{
    public:
    int bengali(){
        cout<<"Bengali is our mother language"<<endl;
    }
    int english(){
        cout<<"English is International language"<<endl;
        oop();
        structured();
    }
};
int main(){
    HumanLanguages obj;
    obj.bengali();
    obj.english();
    return 0;
}
```

```cpp
#include <bits/stdc++.h>
using namespace std;
//Mode private component private
class ProgrammingLanguage {
    private:
    int oop(){
        cout<<"CPP,Java<python are few famous oop languages"<<endl;
    }
    public:
    int structured(){
        oop();
        cout<<"C,Algol,Kotlin are few famous structured languages"<<endl;
    }

};
class HumanLanguages :private ProgrammingLanguage{
    public:
    int bengali(){
        cout<<"Bengali is our mother language"<<endl;
    }
    int english(){
        cout<<"English is International language"<<endl;
        structured();
    }
};
int main(){
    HumanLanguages obj;
    obj.bengali();
    obj.english();
    return 0;
}
```

```cpp
#include <bits/stdc++.h>
using namespace std;
//Mode private component protected
class ProgrammingLanguage {
    protected:
    int oop(){
        cout<<"CPP,Java<python are few famous oop languages"<<endl;
    }
    public:
    int structured(){
        oop();
        cout<<"C,Algol,Kotlin are few famous structured languages"<<endl;
    }

};
class HumanLanguages :private ProgrammingLanguage{
    public:
    int bengali(){
        cout<<"Bengali is our mother language"<<endl;
    }
    int english(){
        cout<<"English is International language"<<endl;
        structured();
    }
};
int main(){
    HumanLanguages obj;
    obj.bengali();
    obj.english();
    return 0;
}
```

```cpp
#include <bits/stdc++.h>
using namespace std;
//Mode protected component public
class sports{
    public:
    int outdoor(){
        cout<<"Football is the most famous sports amongst all other sports"<<endl;
    }
};
    class football : protected sports{
        public:
        int laliga(){
            outdoor();
            cout<<"Real Madrid & Barcelona are two biggest clubs of Europe"<<endl;

        }
        int PL(){
            cout<<"Manchester United & Liverpool are two biggest clubs of England"<<endl;
        }
    };
int main(){
    football obj;
    obj.laliga();
    obj.PL();
    return 0;
}
```

```cpp
#include <bits/stdc++.h>
using namespace std;
//Mode protected component private
class sports{
    private:
    int outdoor(){
        cout<<"Football is the most famous sports amongst all other sports"<<endl;
    }
    public:
    int Getoutdoor(){
        outdoor();
    }
};
    class football : protected sports{
        public:
        int laliga(){
            Getoutdoor();
            cout<<"Real Madrid & Barcelona are two biggest clubs of Europe"<<endl;

        }
        int PL(){
            cout<<"Manchester United & Liverpool are two biggest clubs of England"<<endl;
        }
    };
int main(){
    football obj;
    obj.laliga();
    obj.PL();
    return 0;
}
```

```cpp
#include <bits/stdc++.h>
using namespace std;
//Mode protected component protected
class sports{
    protected:
    int outdoor(){
        cout<<"Football is the most famous sports amongst all other sports"<<endl;
    }
    public:
    int Getoutdoor(){
        outdoor();
    }
};
    class football : protected sports{
        public:
        int laliga(){
            Getoutdoor();
            cout<<"Real Madrid & Barcelona are two biggest clubs of Europe"<<endl;

        }
        int PL(){
            cout<<"Manchester United & Liverpool are two biggest clubs of England"<<endl;
        }
    };
int main(){
    football obj;
    obj.laliga();
    obj.PL();
    return 0;
}
```