

## Assignment on: Inheritance

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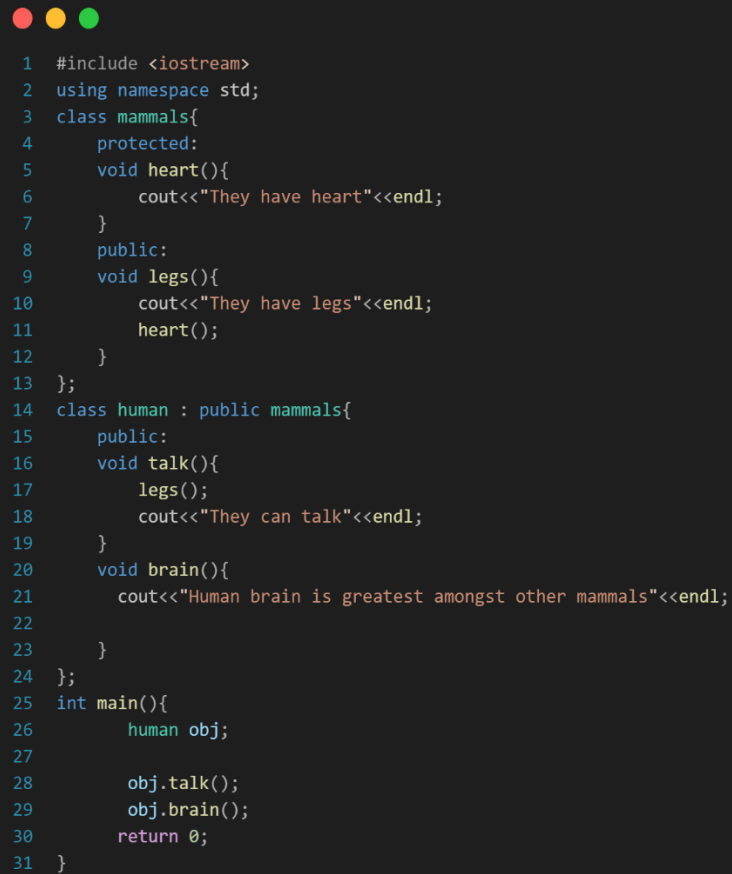
Id:221071005(3<sup>rd</sup> semester)

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)

```
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     }
```



```
1  #include <iostream>
2  using namespace std;
3  class mammals{
4  private:
5      void heart(){
6          cout<<"They have heart"<<endl;
7      }
8  public:
9      void legs(){
10         cout<<"They have legs"<<endl;
11     }
12 };
13 class human : public mammals{
14 public:
15     void talk(){
16         legs();
17         cout<<"They can talk"<<endl;
18     }
19     void brain(){
20         cout<<"Human brain is greatest amongst other mammals"<<endl;
21     }
22 };
23 };
24 int main(){
25     human obj;
26     obj.heart();
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29     return 0;
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```
1  #include <iostream>
2  using namespace std;
3  class mammals{
4      protected:
5          void heart(){
6              cout<<"They have heart"<<endl;
7          }
8      public:
9          void legs(){
10             cout<<"They have legs"<<endl;
11             heart();
12         }
13     };
14     class human : public mammals{
15     public:
16         void talk(){
17             legs();
18             cout<<"They can talk"<<endl;
19         }
20         void brain(){
21             cout<<"Human brain is greatest amongst other mammals"<<endl;
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23     };
24 };
25 int main(){
26     human obj;
27
28     obj.legs();
29     obj.brain();
30     return 0;
31 }
```



```
1 #include <bits/stdc++.h>
2 using namespace std;
3 //Mode private component public
4 class ProgrammingLanguage {
5     public:
6     int oop(){
7         cout<<"CPP,Java<python are few famous oop languages"<<endl;
8     }
9     int structured(){
10        cout<<"C,Algol,Kotlin are few famous structured languages"<<endl;
11    }
12 }
13 };
14 class HumanLanguages :private ProgrammingLanguage{
15     public:
16     int bengali(){
17         cout<<"Bengali is our mother language"<<endl;
18     }
19     int english(){
20         cout<<"English is International language"<<endl;
21         oop();
22         structured();
23     }
24 };
25 int main(){
26     HumanLanguages obj;
27     obj.bengali();
28     obj.english();
29     return 0;
30 }
```

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7         cout<<"CPP,Java<python are few famous oop languages"<<endl;
8     }
9     public:
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```

```

1  #include <bits/stdc++.h>
2  using namespace std;
3  //Mode protected component public
4  class sports{
5      public:
6      int outdoor(){
7          cout<<"Football is the most famous sports amongst all other sports"<<endl;
8      }
9  };
10 class football : protected sports{
11     public:
12     int laliga(){
13         outdoor();
14         cout<<"Real Madrid & Barcelona are two biggest clubs of Europe"<<endl;
15     }
16     int PL(){
17         cout<<"Manchester United & Liverpool are two biggest clubs of England"<<endl;
18     }
19 };
20
21 int main(){
22     football obj;
23     obj.laliga();
24     obj.PL();
25     return 0;
26 }
27

```

```

1  #include <bits/stdc++.h>
2  using namespace std;
3  //Mode protected component private
4  class sports{
5      private:
6      int outdoor(){
7          cout<<"Football is the most famous sports amongst all other sports"<<endl;
8      }
9      public:
10     int Getoutdoor(){
11         outdoor();
12     }
13 };
14 class football : protected sports{
15     public:
16     int laliga(){
17         Getoutdoor();
18         cout<<"Real Madrid & Barcelona are two biggest clubs of Europe"<<endl;
19     }
20     int PL(){
21         cout<<"Manchester United & Liverpool are two biggest clubs of England"<<endl;
22     }
23 };
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25 int main(){
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