

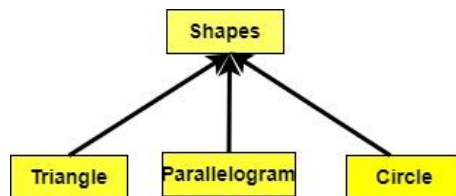
Week - 07 (30-10-2023) task

1. Demonstrate with a suitable example for the following types of inheritances

- Single-level
- Multi-level
- Multiple inheritance
- Multi-path inheritance

2. Demonstrate with a suitable example for static and dynamic binding

3. Consider the following class hierarchy



- Define a pure virtual function area() in shapes class i.e., it becomes an abstract class.
- Implement the appropriate area() method in Triangle,Parallelogram, and Circle classes and make the main method works correctly.

```
int main(){
    shapes *s=new Triangle(10.0,20.0);
    cout<<"Area of Triangle="<< s->area()<<endl;
    s=new Parallelogram(15.0,25.5);
    cout<<"Area of parallelogram="<<s->area()<<endl;
    s= new Circle(3.5);
    cout<<"Area of Circle="<<s->area()<<endl;
    return 0;
}
```