**Program1:-**

mixin class Parent {

  int x = 10;

  static int y = 199;

  void printData() {

    print(x);

    print(y);

  }

}

class Child with Parent {

  static int y = 200;

  int x = 38;

  void printData() {

    print(super.x);

    super.printData();

  }

}

void main() {

  Child obj = new Child();

  obj.printData();

}

**O/P:-**

**10**

**38**

**199**

**Program2:-**

mixin class Parent {

  int x = 10;

  static int y = 199;

  void printData() {

    print(x);

    print(y);

  }

}

class Child implements Parent {

  int x = 38;

  void printData() {

    print("Hii");

  }

}

void main() {

  Child obj = new Child();

  obj.printData();

}

**O/P:-**

**Hii**

**Program3:-**

mixin class Parent {

  Parent() {}

  int x = 10;

  static int y = 199;

  void fun() {

    print(x);

    print(y);

  }

}

class Child extends Parent {

  int x = 38;

  void gun() {

    super.fun;

  }

}

void main() {

  Child obj = new Child();

  obj.gun();

}

**Error: Can't use 'Parent' as a mixin because it has constructors. Parent() {} ^**

**Program 4:-**

mixin Test {

  int x = 20;

  void demo() {

    print("In Test demo");

  }

  void fun2();

}

class Test2 with Test {

  void demo() {

    print("Id test2 demo");

    super.demo();

  }

  void fun2() {

    print("IN fun2");

  }

}

void main() {

  Test2 obj = Test2();

  obj.demo();

}

**O/P:-**

**Id test2 demo**

**In Test demo**

**Exited.**

**Program 5:-**

mixin Test {

  void demo() {

    print("In Test demo");

  }

}

mixin Test2 {

  void demo() {

    print("Id test2 demo");

  }

}

class Test3 with Test, Test2 {

  void demo() {

    print("Id test3 demo");

    super.demo();

  }

  void fun2() {

    print("IN fun2");

  }

}

void main() {

  Test3 obj = Test3();

  obj.demo();

}

**O/P:-**

**Id test3 demo**

**Id test2 demo**

**Exited.**

**Program 6;-**

class Demo2 {

  Demo2() {

    print("In demo2");

  }

}

mixin Demo on Demo2 {

  void fun() {

    print("In fun");

  }

}

class Test extends Demo2 with Demo {

  Test() {

    print("In test");

  }

}

void main() {

  Test obj = new Test();

}

**O/P:-**

**In demo2**

**In test**

**Exited.**

**Program7:-**

class Demo2 {

  Demo2() {

    print("In demo2");

  }

  void fun() {

    print("In fun Demo2");

  }

}

mixin Demo on Demo2 {

  void fun() {

    print("In fun Demo");

  }

}

class Test extends Demo2 with Demo {

  Test() {

    print("In test");

  }

}

void main() {

  Test obj = new Test();

  obj.fun();

}

**O/P:-**

**In demo2**

**In test**

**In fun Demo**

**Exited.**

**Program 8:-**

mixin Demo {

  int x = 10;

  void fun() {

    print(x);

  }

}

class Demo2 {

  int x;

  Demo2(this.x);

}

class Test extends Demo2 with Demo {

  int x = 66;

  Test() : super(7);

  void fun() {

    print(super.x);

    super.fun();

  }

}

void main() {

  Demo obj = new Test();

  obj.fun();

}

**O/P:-**

**10**

**66**

**Program9:-**

mixin Demo2 {

  void fun2() {

    print("In fun demo2");

  }

}

mixin Demo on Demo2 {

  void gun() {

    print("in demo gun");

  }

}

class Test3 with Demo2 {}

void main() {

  Test3 obj = new Test3();

  obj.fun2();

  obj.gun();

}

**Error: The method 'gun' isn't defined for the class 'Test3'. - 'Test3' is from '../../../../Desktop/DART/6-1-24/Mixin/dart9.dart'. Try correcting the name to the name of an existing method, or defining a method named 'gun'. obj.gun(); ^^^**