

Q1. class box {
 int width;
 int height;
 int length;
}
class mainclass {
 public static void main(String args[])
 {
 box obj = new box();
 System.out.println(obj);
 }
}

Q2. class overload {
 static int x;
 double y;
 void add(int a , int b) {
 x = x+ a + b;
 }
 void add(double c , double d){
 y = c + d;
 }
 overload() {
 this.x = 20;
 this.y = 10.0;
 }
}
class Output {
 public static void main(String args[])
 {
 overload obj = new overload();
 overload obj1 = new overload();
 int a = 2;
 double b = 3.2;
 obj.add(a, a);
 obj1.add(b, b);
 System.out.println(obj.x + " " + obj.y);
 System.out.println(obj1.x + " " + obj1.y);
 }}
}

```

Q3. class test {
    int a;
    int b;
    test(int i, int j) {
        a = i;
        b = j;
    }
    void meth(test o) {
        o.a *= 2;
        o.b /= 2;
    }
}

class Output
{
    public static void main(String args[])
    {
        test obj = new test(10 , 20);
        obj.meth(obj);
        System.out.println(obj.a + " " + obj.b);
    }
}

```

```

Q4. class Main {
    public static void main(String args[]) {
        System.out.println(fun());
    }
    int fun() {
        return 20;
    } }

```

Q5.

class Bitwise

```
{
    public static void main(String [] args)
    {
        int x = 11 & 9;
        int y = x ^ 3;
        System.out.println( y | 12 );
    }
}
```

Q6.

class Test

```
{ public void display(int a, double b)
{
    System.out.println(" This is Double");
}
public void display(int a, float b)
{
    System.out.println(" This is Float");
}
public static void main(Stirng args[])
{ Test t = new Test();
  t.display(10, 5);    }}
```

Q7. class Overload

```
{
    static int x;
    double y;
    static { x = 10; }
    void add(double c , double d){
        x = (x+c*d);
        y = (c + d)*x;
    }
    Overload() {
        this.y = 10.0;
    }
}

class Output {
    public static void main(String args[]){
        Overload obj = new Overload();
        Overload obj1 = new Overload();
        int a = 2; double b = 3.5;
        obj.add(a, a);  obj1.add(b, b);
        System.out.println(obj.x + " " + obj.y);
        System.out.println(obj1.x + " " + obj1.y);
    }
}
```

Q8. public class A
{
 void A()
 {
 System.out.println("Class A");
 }
 public static void main(String[] args)
 {
 new A();
 }
}

Q9. class A {
 final public int GetResult(int a, int b)
 { return 0; }
}
class B extends A
{ public int GetResult(int a, int b) {return 1; }
}
public class Test
{ public static void main(String args[])
 {
 B b = new B();
 System.out.println("x = " + b.GetResult(0, 1));
 }
}

Q10.

```
class Output {  
    public static void main(String args[])  
    {  
        short x = 0x8000;  
        byte y = 010;  
        System.out.println(x + " and " + y);  
        x = x >>> 15;  
        y = y << 4;  
        System.out.println(x + " and " + y);  
    }  
}
```

Q10. Needed Type casting

-32768 and 8

-1 and -128

Q1. Answer: Memory address

Q2. Answer: 24 10.0
24 6.4

Q3. Answer: 20 10