

class Fan b.brand = "Usha"; b.no of blades = 4; String brand; b.price = 5500.5f; int no of blades; float price; S.o.p(a.brand); //Usha S.o.p(a.no_of_blades);//4 4000 S.o.p(a.price); //5500.5 class Launch S.o.p(b.brand); //Usha public static void main(String[] args) S.o.p(b.no of blades); //4 4000 S.o.p(b.price); //5500.5 Fan a = new Fan(); a.brand = "Khaitan"; a.no_of_blades = 3; Data a.price = 4500.5f; 4000 S.o.p(a.brand); //Khaitan S.o.p(a.no_of_blades);//3 Value Address S.o.p(a.price); //4500.5 Primitive Variable Reference Variable Fan/b: Fan a; int a; Dog b; float b;

S.o.p(b.brand); //Khaitan S.o.p(b.no_of_blades); //3 S.o.p(b.price); //4500.5 char c;

double d;

4000

brand

null Khaitan Usha

no of blades

Ø.0450955

0 3 4

price

Student c;

Employee d;

REFERENCE TYPE ASSIGNMENT

```
Variables
                                     int a;
                                     float b;
                                     char c;
                                     boolean d;
                                     String e;
                                                         INSTANCE VARIABLES
LOCAL VARIABLES
                                                           class Demo
class Demo
                                                               int a;
    void disp()
                                                               float b;
           int a;
                                                               char c;
           float b;
                                                               boolean d;
           char c;
                                                               String e;
           boolean d;
           String e;
                                                               void disp()
```

```
class Launch
      Local Variables
                                                public static void main(String[] args)
class Launch
                                                                                        Stack Area
                                                       int a = 10;
                                                      float b;
  public static void main(String[] args)
                                                                                          10
                                                      b = 45.5f;
                                                       char c;
         int a;
                                                                                      b
                                                                                          45.5
                                                      boolean d;
        float b;
                                                      String e;
        char c;
                                                                                      C
        boolean d;
                                                       float res = a + b;
        String e;
                                                                                      d
                                                                                           true
                                                      c = 'A';
        S.o.p(a);
                      Error: Variables might
        S.o.p(b);
                                                      S.o.p(a); //10
                       not have been
        S.o.p(c);
                                                      S.o.p(b); //45.5
                       initialized
        S.o.p(d);
                                                                                           55.5
                                                      S.o.p(c); //A
        S.o.p(e);
                                                      d = true;
                                                      S.o.p(d); //true
                                             Total Local Variables: 6{a,b,c,d,e,res}
                                             Variable assigned with values: 4 (a,b,c,d, res)
```

Variables Accessed: 4 (a,b,c,d)

Variables Not Accessed: 1 {e,res} thru

thru

expression

```
class Launch
                                                               class Launch
          public static void main(String[] args)
                                                                 public static void main(String[] args)
               int a = 10;
Local to
                                                                     for(int i=1; i<=5; ++i)
main()
               if(a < 50)
                                                                       S.o.print("*");
         Local
                     int x = 40;
         to if
                     ++x;
         block
                                                                     S.o.p(i); Error: Cannot find the Symbol
               S.o.p(x); Error: Cannot find the Symbol
```

```
class Launch
{
  public static void main(String[] args)

{
    int i;

    for(i=1; i<=5; ++i)
    {
        S.o.print("*");
    }

    S.o.p(i); //6
}
}</pre>
```

Local Variables

```
class Demo
{
    void disp()
    {
        int a = 10;
        float b = 45.5f;
        char c = 'Z';
    }

    void printInfo()
    {
        S.o.p(a);
        S.o.p(b);
        S.o.p(c);
    }
}
```

Instance Variables

