```
class Sample Program 2
   psvm (String[] args)
    System. out. point hi ("Hi, Welcome again " + "and again to Java");
                                           To join two String data with
0/p:-
 Hi, Welcome again and again to Java
P4:
4) class Demol
     psvm ()
     Sop (10+10);
                             here + adds 10+10 first and then
                              displays the result
      20
   class Demod
       psvm (String[] args)
        Sop ("Program starts...");
        int id; // declaration
        id = 20123 45: //initialization
                                                withing . Lie amologic
        Sop (id); // points id value
        Sop ("Program ends...");
   3
```

10-01-2013 Thursday

P3:

Op: Program stoots...
2012345
Program ends...

NOTE: 13 Before using a variable, me need to initialize, before initializing me need to declare the variable.

Class Assign Programs

Public static vaid main (String[] args)

& Sop ("Program starti...");

int numl;

int numl;

int sum;

numl = 10;

num2 = 20;

Sum = numl+num2;

Sop (sum);

Sop ("Program ends...");

}

Program starti...

% Program starti...

50
Program ende...

7) class Demo 4

psvm()

Sop("Program Starti...");

final int empID; // final
empID = 12973;

Sop ("empID is "+empID);

Sop ("Program ends...");

% Program starts...
empID is 12973
Program ends...

Sop ("Program starti...")

clouble salary = 15000.98;

sop ("Salary & "+salary);

salary = 25128.54;

Sop ("Salary u"+ salary);

salary = 35978.54;

Sop ("Salary u"+ salary);

Sop ("Salary u"+ salary);

Sop ("Salary u"+ salary);

Sop ("Program ends...");

% Program starti salary i 15000.98 salary i 25128.54 Salary i 35978.54 Program ends

Ty we need to initialize avariable only once, the such variable has to be declared as final by using final treyword

old les A & 18

Variables

15-X) In java vooriables one used to store the data of programmy

16 *) The variable has to be declared first before initializing. L

16.1*) The syntax to declare a variable

datatype Variable neme;

17th Datatype: Indicates the type of value that we assign to the variable. Java supposts 8 type of datatypes.

1. byte

2. short

3 . int 78 - 4 70 0

4. long

5. flood

6. double

7. char

8: boolean

NOTE 18*) In java there is no string vorsible. Inorder to store

String value java provides a class String, String Buffer &

String Builder.

19*) Every variable has to be initialized before using inamy operation. The syntax to initialize variable is

Variablename = value;

- 20*) If any variable is used without initialization, then compiler throws an erosoo.
- 21 * A voulable can have diff values initialized, thoroughout the program execution.

```
9) class Area Of Circle
  PSVTO (String[] args)
     Sop ("Program starti...");
                                          // float variablename = value f;
      final float PI;
                                            long variablename = value l;
       PI = 3.149;
                                         Final double PI = 3.14',
       double o;
       8=2.5;
                                                double vadius = 10.0;
        float Area;
                                                double Area;
        Area = PI* xxx;
                                               Area = PI * radius * radius;
        Sop ("Area of Circle" + Area);
                                         Sop ("Area of Circle with radius" + radius + "is"
       Sop ("Program ends ...");
                                               + Area);
                                          Sop (Program ends. .. ");
   3
 O/p. Poogoam starti...
       Area of Corde
       Program ends ...
  io) class Assign Simple Interest
       psvm (String[] args)
          Sop ("Program starts...");
          double Interest;
          long Poinciple = 10000 l;
          double Rate = 0.15;
          int Time = 2;
           Interest = Principle * Rate * Time;
         Sop ("The Simple Interest for" + Principle + "amount at the rate of"
                Rate + "for" + Time + "years duration is" + Interest);
         Sop ("Program ends...");
        3
         Program starts...
The Simple Interest for 10000 amount at the rate of 15% for 24% ?

duration is 3000
```

class Assign Deg To Fahrenheit

psvm (String [] args)

f

Sop ("Program startu...");

double Fahrenheit;

double Degreecelsius = 28;

Fahrenheit = (Degreecelsius *12) + 32;

Sop (Degreecelsius + "Degree Celsius "a equal to "+ Fahrenheit + "Fahrenheit

Sop ("Program ends...");

3

O/p = Program startu...

Program starts...
28 Degree Celsius is equal to 82.4 Fahrenheit
Program ends...

- * * * * * * -

int Time = 3; Interest = Fraction = Rete = Time;

"+ marks " - 2" + 3.9" .

...bro morposi")

and algorithms in