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ASSIGNMENT- 1.

1. Find if the Given username is valid.

Program:

```
Import java.io.*;
Import java.util.Scanner;
class username
{
public static void main (String[] args).
{
String S1,S2;
Scanner s = new Scanner (system.in);
System.out.println ("Enter username");
S1 = S.next ();
S2 = S. next ();
if (s1 = =s2)

system.out.println ("user name valid");
else
system.out.println ("user name invalid");
}
}
```

I/p: Sareetha @678   O/p: user name Invalid.

    Sareetha @123.

2. check for voting eligiblity.

Program:

```
Import java.io.*;

Import java.util. scanner;

class voting
{
Public static void main (string [] args)
{
int a;

Scanner s = new scanner (system.in);

system.out.println (" Enter Age:");

a = s.next Int ();

if (a>18)
    system.out.println ("you are eligible");

else

system.out.println ("you still have" +(18-a)+"years left");

}
}.
```

I/p : 19.   O/p : you are eligilee.

3. Simple Interest. Rate of Interest : for senior citizen 12%.

for non -senior citizens : 10%.

Program:

```java
Import java.io.*;

Import java.util.scanner;

class si
{
public static void main (string [] args)
{
float P,S:
Int n,a;
scanner a = new scanner (system.in);
system.out.println("enter principal amount, No of years, Age !");
p =>nextfloat ();
              Int
n =>(. next float ();
a =>(. next Int ();
if (a > 60)
    s = p * n * 12/100:
else
    s = p * n * 10/100:
system.out.println (" The simple Interest Is": +s); }}
```

I/p : 200000
      3
      18

o/p : The simple Interest
       is 60000.0.

4. Leap year:

Program:

```java
Import java.io.*;
Import java.util.scanner*;

class leapyear
{
public static void main (string [], args)
{
int a;
scanner s = new. scanner (system.in);
system.out.println ("Enter year:");
a = s.next Int ();
if ((a%4==0 && a%100!=0) || (a%400==0)).
    system.out.println ("The given year is a leap year.");
else
    system.out.println ("The given year is not a leap year");
}
}
```

I/p: 1992.

o/p: The given year is a leap year.

5. square and cube of a decimal number:

Program:

Import java.lo.*;

Import java.util,Scanner;

class SC
{
public static void main (string [] args)
{
float a;

Scanner s = new scanner(system.in);

system.out.println ("Enter number:");

a = s. next Float ();

system.out.println("The square of Number is:"+(a*a));

system.out.println("The cube of Number is:"+(a*a*a));

I/p: 0.6.

o/p: The square of Number is 0.36.

The cube of number is 0.2600002.