```
String and Vector
    13 October 2022
                    07:01 PM
      class: - Object - methods.
   String s = new String ("India");
      String SI = S. to Lower (ase();
1) length();
                                                         10) concat()
2) to Lower (ase ()
                                                         11) charAt() -> 3-> 11
                                                         12) charAt (char, int);
3) toUpperCase()
4) trim()
                                                         13) to CharArray ();
5) replace (char, char);
                                                            import java.util.*;
6) equals() India ≠ india
                                                            public class Main
7) equality no recase () India = india
                                                                  public static void main(String[] args) {
8) Substring (a) -2, dia 1
1) Substring (n1, n2); (1,3) "nd"
                                                                    Scanner s=new Scanner(System.in);
                                                                       System.out.println("Enter a string");
                                                                       String s1=s.nextLine();
                                                                       System.out.println("Original String is = "+s1);
 StringBuffer - Mutable
                                                                       StringBuffer sb=new StringBuffer();
                                                                       sb.append(s1);
                                                                       sb.reverse();
                                                                       System.out.println("StringBuffer is = "+sb);
      1) |engfh()
2) setclarAt (char, int)
                                                                       String rev=sb.toString();
                                                                       System.out.println("String Reverse is = "+rev);
      3) charAt()
                                                                       if(s1.equalsIgnoreCase(rev))
                                                                       System.out.println("String is Palindrome");
      4) insert (int, chan)
       5) delete ( int, int)
                                                                       System.out.println("String is not a Palindrome");
                                                                  }
       6) append()
                                                            }
       7) reverse()
8) to String()
                     Vector V=new Vector(5,3);
Vector V=new Vector(5,3);
Vector V=new Vector(6);
                                                                                   111119
                                                                        V-> (0)
                                                                           import java.util.*;
                                                                           public class Main
1) add Element ()
                                                                                 public static void main(String[] args) {
                                                                                  Vector v=new Vector(5,2);
2) first Element()
                                                                                  v.addElement(new Integer(1));
                                                                                  v.addElement(new Double(7.8));
3) last Element()
                                                                                  v.addElement(new Float(3.2));
                                                                                  v.addElement(new Long(1000045));
4) removeElement()
                                                                                  v.addElement(new String("DJSCE"));
                                                                                      System.out.println("Vector is "+v);\\
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2) 711---
  3) last Element()
                                                                                                                         v.addElement(new Float(3.2));
                                                                                                                         v.addElement(new Long(1000045));
  4) removeElement()
                                                                                                                         v.addElement(new String("DJSCE"));
                                                                                                                              System.out.println("Vector is "+v);
System.out.println("Capacity is = "+v.capacity());
System.out.println("Size is = "+v.size());
  5) indexOf()
 6) |astIndexOf()
                                                                                                                               v.addElement(new String("Sixth Element"));
                                                                                                                               System.out.println("Vector is "+v);
System.out.println("Capacity is = "+v.capacity());
  7) elementAt()
  8) remove ElementAt()
                                                                                                                               System.out.println("Size is = "+v.size());
                                                                                                              }
Constructors-

class (irele

{ froat a, & i circle()
}

void procus()

{ a = 3.141 *****;
}

void output()

{ Sop("Area is"+a);
}
                                                                                                   Circle &= new Circle(1);
This teprose
 Constructor Overloading
                      //import java.util.*;
                      class Circle
                                                                               float r=8,a;
                                                                                                                     float r=5,a;
                        float r=5.a:
                                                                                Circle(int r)
                                                                                                                       circle(int r)
                        Circle(int r)
                                                                                  this.r=r;
                                                                                                                        this =r;
                         this.r=r:
                                                                                 Circle()
                                                                                                                      Circle()
                        Circle()
                                                                                                                      { 2
                                                                                                                      void process(){
                                                                                void process(){
                        void process(){
                                                                                                                        a=3.14f*r*r;
                                                                                  a=3.14f*r*r;
                          a=3.14f*r*r;
                                                                                void output()
                                                                                                                      void output()
                        void output()
                                                                                                                                     rinti ("Area= "+a);
                                                                                  System.out.println("Area= "+a);
                                                                                                                        System.out.
                          System.out.println("Area= "+a);
                      public class Main
                                                                                                              C1-
                              public static void main($tring[] args
                                Circle c=new Circle(10);
                                c.process();
                                c.output();
                                Circle c1=new Circle();
                                c1.process();
                                c1.output();
 Copy Constructor
                                                                                                                         Circle c=new Circle(10);
                                                                                                                           c.process();
                                                                                                                           c.output();
                                                                                                                            Circle c1=new Circle(♥);
                                                                                                                           c1.process():
                                                                                                                           c1.output();
        class Circle
                                                               float r=8,a;
                                                                Circle(int r)
```

this.r=r;

float r=5,a;

Circle(int r)

float r=5,a;

Circle(int r)

