```
,6-6-8tmgs
import dava util-Scanner;
lass String Demo 2
public static void nouin (Aring args[])
System out-printles ("Bmsce equals Bmsce ="+
                               ("Brusce". equals ("Brusce")).
System-out- println ("Brusce equals collège = "+ ("Collège");
System.out-printly ("Brisce equals Brisci="+
                                  ("Brusce". equals ("BMSCE")).
String SI= 4 Brusce college 4.
String S2=4 Welcome to Brusce College of Engineering "
ul (si- segion marches (0,52,0,13))
System out. print la ("substing matched").
System-out. println (" Not matched");
System. out - print In ("starts With () elemo: ");

System. out - print In ("Does eclipse start with
                        ecl? ! + ("edipre" sterrs with ("ed"));
"ystem , out - perintly (" Does eelipse start with ("1+0").
```

System . out. printh ("endswith () duno: ") System. out. println ("Does eclipse end with pse ?: " + (veclipse " endlost. System. out. printle ("Does eclipse and with tel; + ("eclipse". ends with ("ed")). System. out. printly ("equals versus == "). String = 0 = "Beautiful". String P= "Brantiful" System. out. println (" String 1: "+0); System. out, printle (4 String 2:"+ P); System. out-printly (" Equals: "+ (o. equals (p)). System. out = println ("=="+ (0==p)), Output: Brusce equals Bursce = teme College = fals Brusce equals Busic equals BMSCE = falge Not matched

(but with demo(): your eelipse start with eclostene over eclips and with lec?: false abwith demo(): jour eclipse start end with pse ?: true pour eclipse end with ecl?: false ignals versus = = thing 1: Beautiful Jung 2: Beautiful Equals: true := true hopa Mostract claus Fly Methods fly (), makeround () Subclasses - Eagle, Hawk abstract class # by public abestract void fly (); public abstract void makesound (); class Earle extends Fly public void Ply() j System. out. perintlu ("The eagle flies high.");

public void makesound () Systems out. printa ("The eagle emits a high pitched sound"). class Hawk entends Fly public void thy () Eystemooutoprinth ("The bowk flies lower"). public void makesound () System. out-perint lu ("The hank screeches keaaar"). class Bisdman public static void noin (string args [3) System : out . printh (" Invoking eagle!"); Eagle eg= new tagle (); eg. fly ();
eg. nakeround ();

```
your out sprintly ( Invoking havk !").
parsh hk = how Hawk ();
Je fly ( );
Je nakeround ();
Julput:
Imolenna eagle 1
The eagle flies high
The eagle emits a high pitched whistle.
 Involving hawk!
 The howk flies lower
 The house screeches keader
 21. & Implementation of stack using Generics:
  Public class Stack (E>
    E stck [];
   int top;
   find int SIZE = 10;
   Stack ()
    Stok = (E[]) new Object[SIZE];
    top = -1;
```

void push (E item) if (top = = SIZE-1) System = out = printle ("stack is full"); Stop [++top]=item; E pep () il(top (0) , out , printly ("Stack underflow"). · return import java. util. Scannes; public class Test Stack public static void main (string args [])

(fack < Integer > mystack 1 = new Stack stack < Integer > (); stack (Double > my stack 2 = new stack < Double > (); Scanner S= new Scanner (System.in); System. out. println ("Enter elements into Integer Stack:"); for (int i=0; 125; i++) int h=S. hent[ut(); mysterck 1. push (n); System. out printly ("Enter elements into the double stack: "); for (itt i=0; i<5; i++) double m=S=nent Double()-mystack 2-push (m); · System - out . puntly ("Frements of stack 1"); for (in i=0; i<5; i++) System o out printle (mystack J-pop()). tool (int 1. System out printly ("Flements of stack 2")for (int i=0; i<5; i++)

System. out. primtle (*nystack-pop()). s. close (); Output: Enter elements into the integer stack: 12345 Enter elements into the double stack: 11.6 12-7 8-0 9.0 10.5 Elements of stack I: Elements of Stack 2: 12-7 11.6 10.5 9.6 8.0