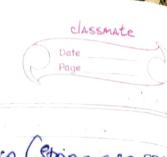
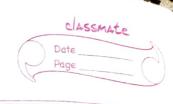
LASSMALL Write a Java program to create a generic class stack which hold 5 integral and 5 double values import java.util.scanner; clan stack (E>4 e Stck(); int top; final int Rize = 10; stack ()f etck = (E[]) new object [size]; top=-1; void push (Eitem) f ij (top==ette-1)[System.out-printle ("Stack is full"); elu { stck (+ ttob) = item; E pop()f y (topxo) y "System.out.println ("Stack is empty"); return nuts else f letum !taftop --];



public class generice of public static void main (String asgril); Stack (Integer) mystack 1 = new Stack (Integra > (); Stack (Double > mystack 2 = new Stack. <Double>(); Scanner &= new Scanner (Bystem. in); System out println ("Enta the eliments"). for (int i=0; 125; 1++)[(nt n = S. neutint()) mystack 1. push (n); } System, out println ("Enter the elements"), for (int i=0; (LB; (++)) Int m = 8. next Double (); mystacka.push(m); } Bystem.out. println ("Elements of stack!"); for (int i=0; i<5; i++) { System. out printly (mystack 1-pop()) for (int (=0; (<5),14+)[System out printle (mystacka, popl) S. clox();

classmate output: ence the elements into the integer stack 2 3 4 Enter the element into double stack 5 6 7 Elements of Stack 1: 5 4 3 2 1. Glement 1 stacke: 3.0 4.0 4.0 6.9 5.0



Write a java program to create an abstract clan shape with abstract methods calculate Breal) be calculate penimeter(). Create subclass - Crock & Triangle that entends the Shape class and implement the sespective methods to calculate area and penimeter of each shape.

import java.lang.Math;

abstract class shaple i

double a;

double b;

double c;

abstract void calculate personeter();

abstract void Calculate personeter();

class Triangle extends mape?

Triangle (double x, double y, double)

4

a=1;
b=y;

C = E;

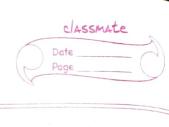
roid calculateau al) {

double 8 = (afbtc)/3;

Pystem out. println ("Area" +

(Math.sqst(3+(s-a)*(s-b)*(s-c)));

roid calculatepenimeter () of System.out. println ("Perimeter=")+ (athto)); class Circle extends shaped circle (double o) of a=r; void CalculateBrea(){ System.out-println ("Area" + (Math. PI+ a-a)); void calculatepenmeter () f System out println ("Penimeter = " + (& Math PI a)); Clary Shape Mif public static void moun (shong 1) args) Triangle t= new Triangle (&.O, 3.0, 5.0); Circle C= new circle (50); 6- calculate Areat); t. calculate permeter (); C. cadculate Breal) c. calculate prometal);



Area: 4.14578098794925. perinction= 111,0

Area: 98,5398163

permeter 31.41592653

Demonstrate String length, Strong distance, String concat:

Public clars strong of

public static void main (Strong engs [])

System. out. println (" Demonstrat str unoph).

char.char[] = { "a, "b", "c"};

slring s1: new string (chau);

System. out println (Si length ()); Pining out println ("String concat");

eming, age = "19";

String 88 = "He is" + age + "years old"; Rystem.out. printer (sa);

System out vonntla ("demonstrate literals);

Bystem out. println ("abo". length());

		classmate
		Date Page
	Op:	
	Demonstrating string length	h!
	5	
	glr. concat	
	He is A years old Demonstrate literals, ? 3	
	Dermonstread attoals ? 3	
	10. 6 1.11 0 (0.11)	
	Use getches () to entract	BMSCE from
	Use getchas() to entract "Welcome to BMSCE collection	y. ".
	public class strings	
	public class strong of public static void mais	(String augs ())
	d	
	string s= "Welcome	to BMSCE college";
	strong s= "Welcome ;	,
	int end =16;	
	char by [] = new ch	nai [end-start];
	chat by [] = New ch 8-get chais (start, end, System.ow. println (k	buy, 0);
	Rystem. ow. mintln ()	oul);
	4	D
	?	
	Ole	
	TRMC(+	
A.	1 pl	
J.	BMSCE 6/01/24	

3) Dimensime are 10.0 by 14.0 by 12.0 box b: Dimensims au 10.0 by 14:0 by 120

(4) brusce (5) 65

Welione to brisce collège

© Brosce equals Brosce → true

Brosce equals vollege → fectse

Brosce equals Ignore case BMSCE - true

(7) Elebstring is matched 81 = "Emsce vollege" \$2 = " Welcome to Brusce collège of Engineeing"

Classmate
Date
Page

9 - false

watch

10 Hello equals Hello - toue Hello = = Hello - false

The names in alphabetical vides are apple ball cat

(1) Sorted Numbers (Ascending order) =
(1,2,2,4,5,6,7,8,9,10)

(3) Theore was a test. These was too

(19) hello world

(15) commage (16) Helio friends

(17) Student 1 name: prateck Reg no: 123

> Semuta: 3 (GPA: 8.87

SIMA	
Date	
Date Page	
2	

name: Harrest Reg no: 191 semeste: 4 CGPA: 9.85

student 2

(18) charAt 3 is 'A'
reverse of SBS is SBS

(19) Eagle is flying.

Eagle makes a sound

Hawk is moving Hawk is making a sound

20) Circle-Area: 78.5398

personeta - 31:4259

Triangle Brea: 5.0 Perimeta - 12.0

- Shreya S Rudagi - 1BM22(SQ67