Stack using Scanner class

	Date:	
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import java. util. Scanner;

public class stack Scanner &

static final int PUSH = 1;

static final int POP = 2;

static final int PEEK = 3; static final int DISPLAY = 4;

Static final int FXIT = 5,

public static void main (steing [] args) {
Scannor sc = new Scanner (system.in);

System. out. printly ("Enter the maximum size of the stack:");

int maxsize = sc. nextInt();

int [] stack = new int[maxsize];

int top = -1;

while (true) {

System.out.println ('Choose an operation:"); System.out.println (Push + ".Push");

System.out. printly (POP + ".POP");

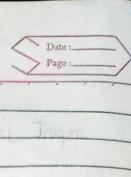
System. out. peintln (PEEK + ".PEEK");

system-out printin (DISPLAY + ". DISPLAY");

System.out. println (EXIT +". EXII");

System out pointly ("Enter your choice:");

int choice = sc next Int ();



switch (choice) { case PUSH: top = push (sc, stack, top, maxsize);

and, manys, popu, spots

case Pop; top = pop Cstack, top); 400 to 1015 PI AND = 41

Case PEEK: peek Estack, top); breaking some Cutter jass

case DISPLAYSom of what I mitigate motor display Cstack, top; to see a line of the

case EXIT: System. out. psintln C"Exiting Program --"); Sc. close CD;

return; ("HOUP." + HOUP) ather too motion

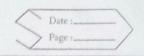
default . renth (PEEK + "PEEK" : thungsb

System out, printin ("Invalid choice");

Enter out pouts ("Fitor your chain

Sutemout read (Pop + ", Pop").

Other a may f



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static int push (Scanner sc, int [] stack, int top, int maxsize) ?
if Ctop == maxsize -1) ?
    System. out. println C"stack overflow! cannot push");
 3 else &
    System. out. print ("Finter Value to push:");
int value = sc. nextInt ();
    stack [++Top] = value;
    System out psint ("Pushed: "+ value);
    return top;
static int pop Cint [] stack, int top) {
    i+(top == -1) {
    System-out, printin C'stack Underflow!");
        System. out. psintln ("Popped:"+ stack[top]);
     3 return top;
Static void peck Cint [] stack, int top) {
    if Ctop == -1) ?
      System out peintly ("stack is empty.").
       System. out. println ("Top element:" + stack [top]
```



Static void display (int [] stack, int top) { 4 Ctop == -1) & System out point m ("stack is empty."); 4 else & to at and System. out. printh c'stack elements:"); for Cint i = 0; i<= top; i++) {

System. out. print C stock [i] + " ");

att signand "+ stacketto