Q write a Java pregram to create a generic dass Stack which holds 5 integral and 5 double values. Class Generic Stach < 7 3 9 private Object (] Stock Array ; private sit top =- 1; private state final int MAX_SIZE=5; public Generic Stuck () 2 stackArray = new Object CMAx-51767; public void push IT value) & if Ctop < MAY_SIZE - DStack Array Exptop 7= value; else System. pot. println C" Stack 13 full. Cannot post more elawors. @ Suppress Warnings ("unchecked") public Tpop () { If (top >=0) return (7) stack Array Ctay --); else § System. out. println (" stack is empty, count pop more element 5); roturn null; boolean is full) & 1storn top == MAR_SIZE-1;

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class generics &
 public states very main (string [] args) &
       Georgic Stack & Totager State or stack now Generic Stack = > () =
        Comerce Stack & Poulote > Northle stack = new Generice Stack =>()=
       for (Mist; 165 , 177) }
            i Nega Stack . posh (i) ,
        for (double 1 = 1.0; ic= 5.0; it + ) q
               double Stack. posh (i)
      System and pointful topped integers from the Stuck :")
        while Conteger Stuck . Is Empty U) &
          System. out. PM & In ( Integer Stack pop())
         System ent printer ("Popped doubles from the start")
           white ( 5 double stack. is Empty () $
                 System. out. printly ( double Stack pop(S)
                                               16/1/24
  Dubput:
  paped into gus from the stack:
```

Popped dables from the stack
5.0
4.1

4.9 3-0 1.0