LAB ASSIGMENT-6

```
&1. Write a menu driven program using class,
 methods and array to construct stack and
 implement operations: push, pop, and display.
import java. util. +;
public class al
  public static void push ()
     if (top == MAXSIZE-1)
       Syxtem. out. println ("Overflow!!").
     else
       Scanner se=new Scanner (System.in):
       System. out. println (" Enter element).
       int n= se. next Intl);
       top=top+1;
     } stack[top]=n;
```

```
public static void pop()
   if (top==-1)
    system.out. println ("Under-flow");
   else
      int ele = stack[top];
     System out println ("Deleted element
     is " + ele).
     top=top-1;
public static void display()
   if (top == -1)
    System.out. println ("Stack is empty").
    for (int i= top: i>=0: i --)
       System. out. println (Stack[i]),
```

final int MAXSIZE = 5; public static int stack[] = new int public static [MAXSIZE]; public static int top= -1; public static void main (String[] angs) Scanner ec=now Scanner (System.in); while (tone) System.out. printin (" * * MENU*+"). System.out. printfa (" 0 : Exit"). System.out. printin ("1: Push"). System.out.println("2: Pop"); System out println ("3: Display"); System. out println ("4: Ingert from by"); 3 yestermout. println ("5: Insert formerd") System out printen ("6: Instert at any pos") System out println ("7: Delete from beg"). System out println ("8: Delete from end'), System out printly (19: Delete form any pos') Syctem.out.println ("Ho Enter your choice"): int choice = sc. next Int ().

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Switch (choice)
  case o:
      System. exit (0);
      break;
  case 1:
      push();
       break;
  call 2:
       pop():
       break;
  case 3:
      display();
  default!
      System.out.pnintln("Invalid");
```

Q2. Wreite a mesur program dreiven program using class, method and linked list to construed a stack and implements the above three operations. Ans: import java. util. x; class node int info; node next; public class Q2 puels () public static void main (String [] angs) node p=new node(): Scanner sez new Seanner (System. in); System. out. printh ("Enter info:"). pinfo=sc.next Int(): p.next = top; top= P; public static void pop() if (top = = null) System.out.println("UNDERFLOW");

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node q = top;
        top: top. nost;
         top. next = null;
         System. out. println ("Deleted node is"+
        q.info);
  public static void display ()
     if (top & = = null)
        System.out. println ("Stack is empty");
    else
       node q = top;
       while (q!=null)
          System. out. println (q. info + "-);
          9 = 9. next;
public static void main (String[] args)
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```
static node top: null;
public static void main (Strengt] angs)
  Scanner scanner (Systemin).
  while (+me)
   System. out. println (" + ** MENIU ** * ');
   System.out. prointln ("o: Exil").
   System.out. println ("1: Push");
   System. out. println ("2: Pop"),
  System. out. println ("3: Display"),
   int choice = se next Int();
   switch (choice)
   case o
       System.exit(0);
       break;
   case 1:
       push ();
       break;
   case 2:
        po1();
        break !
    case 3:
       display();
        break;
```

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de fault: System. out. pointin ("Wrong choice"). break;

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