

19) Public class GenericStack<T> {
 private Object[] StackArray;
 private int top;
 private static final int MaxSize = 10;

```
    public GenericStack() {  
        StackArray = new Object[MaxSize];  
        top = -1;  
    }
```

```
    public void push(T element) {  
        if (top < MaxSize - 1) {  
            StackArray[++top] = element;  
            System.out.println("Pushed : " + element);  
        }  
    }
```

```
    else {  
        System.out.println("Stack is full. Cannot  
        push more elements.");  
    }
```

```
    public T pop() {  
        if (!isEmpty()) {  
            @SuppressWarnings("unchecked")  
            T Element = (T) StackArray[top--];  
            System.out.println("Popped : " + Element);  
            return Element;  
        }  
    }
```

```
    else {  
        System.out.println("Stack is empty");  
    }
```

return null;
}
}

Public boolean isEmpty(){
return top == -1;
}

Public static void main(String[] args){
GenericStack<Integer> integerStack = new
GenericStack<>();
integerStack.push(1);
integerStack.push(2);
integerStack.push(3);
integerStack.pop();

GenericStack<Double> doubleStack = new
GenericStack<>();
doubleStack.push(1.5);
doubleStack.push(2.5);
doubleStack.push(3.5);
doubleStack.pop();

Output: pushed : 1
pushed : 2
pushed : 3
popped : 3
pushed : 1.5
pushed : 2.5
pushed : 3.5
pushed : 3.5

* Strings

1) Sanketh

Swati

Sarthak

2) length = 5

Shree

3) pqrst

not match

4) a=444

5) 65

66

67

abc-

6) True

false

false

true

7) String is matched

8) true

true

9) false

true

10) true

false

11) apple ball car dog int free gun hen bee
jug kite lift man ner Orange parrot
queen ring Star free.

12) 1 9 3 4 5 6 7 8 9 10

13) This is a test. This is too

14) Hello world

15) Commage

16) Hello friends

17) Student 1

name : Shree Shukta

Reg no. : 1008

sem = 3

CGPA = 9.3

18) char at 3 is 'x'

abc

reverse inord

19) Carea = 28.26

Cperi = 18.84

Tarea = 40

Tper = 83

Di
19/01/24