Sagar Bangari - 1BM22CS232

* Strings

1) Sagar
   Swati
   Satesh

2) length = 5
   Hi sagar

3) a = 444

4) BMSCE

5) 65
   66
   67
   abc

6) true
   false
   false
   true

7) Substring is matched

8) true
   true

9) false
   true

10) true
    false

11) Apple ball cat dog ant fire gun hen ice
    jug kite ~~rear~~ lift man net orange parrot
    queen ring star tree

12) 1 2 3 4 5 6 7 8 9 10

13) This is a test This is too

14) Hello world

15) Commege

16) Hello friendy

17) Student 1

name : Sagar
Reg no : 548
Sem : 3
CGPA : 9.3

Student 2

name : Swati
Reg no : 848
Sem : 5
CGPA : 9.3

18) Char at 3 is 'x'

abc
reverse : inohd

19) Eagle is flying
Eagle makes a sound

Hawk is flying
Hawk makes a sound

20) Carea : 28.26
Cperi : 18.84
Tarea : 40
Tperi = 83

9) Write a java program to create a generic class stack which holds 5 integers and 5 double values

```
import java.util.*;
class stack<T>{
    T st[];
    int top;
    int size = 10;
    stack(){
        stk = new Object[size];
        top = -1;
    }
    void push(T item){
        if(top == size-1){
            System.out.println("overflow");
        }
        else{
            st[++top] = item;
        }
    }
    T pop(){
        if(top<0){
            System.out.println("Underflow");
            return null;
        }
        else{
            return st[top--];
        }
    }
```

```
public class Teststack {
    public static void main (String args[]) {
        Stack<Integer> s1 = new Stack <Integer> ();
        Stack <Double> s2 = new Stack < Double > ();
        Scanner s = new Scanner (System.in);
        System.out.println ("Enter elements in
                integer stack");
        for (int i=0; i<5; i++) {
            int n = s.nextInt ();
            s1.push(n);
        }
        System.out.println ("Enter elements in
                Double stack");
        for (int i=0; i<5; i++){
            Double m = s.nextDouble ();
            s2.push(m);
        }
        System.out.println ("Elements of s1");
        for (int i=0; i<5; i++){
            System.out.println(s1.pop());
        }
        System.out.println ("Elements of s2");
        for (int i=0; i<5; i++){
            System.out.println (s2.pop());
        }
        s.close();
    }
}
```