Strings:

string constructors:

```
chars chars[] ={'b', 'm', 's', 'c', 'e'}
String S1 = new String(chars)
string S2 =new String(chars, 1, 3);
```

Output: bmsce
msc.

string length:

```
char chars[] ={'p','y','t','h','o','n'}
String s = new string(chars);
System.out.println(s.length());
```

Output: 5

string literal & concatenation:

```
System.out.println("abc".length());
string car = "BMW";
System.out.println("He has" + car+"car");
```

Output: 2
He has a BMW car.

getChars:

```
String clg ="Welcome to Bmsce College";
getChars( 11, 17, buff, 0);
```

Output: Bmsce

equals & equalsIgnore case:

Bmsce equals Bmsce -> true
Bmsce equals College -> false
Bmsce equals BMSCE -> false
Bmsce equalsIgnorecase BMSCE -> true

region Matches:

```
Boolean ismatch = str1.regionMatches(11, Str2, 0, 13);
```

O/p: Substring is matched

Starts with and ends with:

```
String game = "Basketball"
System.out.println(~~"Bask~~ game.startswith("Basket"));
System.out.println(game.endswith("ball"));
```

O/p:

```
true
true
```

equals V/s ==

Hello equals Hello -> true

Hello == Hello -> false

sort

apple ball cat dog end free gun hen ice jug kite lift man nat orange parrot queen ring star tree umbrella van watch xmas yatch zee.

// 12

2 3 4 5 6 7 8 9

13

This is a test. This is, too

14

World

15

Commege

16

Hello friends

17

Student 1	Student 2
name: Santosh	name : sanket
Reg no: 244	Reg no: 242
sem : 3	sem : 3
CGPA : 8.35	CGPA : 9.2

Write a java program to create a generic class stack which holds 5 integers & 5 double values.

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

```
            else{
                    return  stk[top--];
            }
        }
}

public class Teststack{
        public static void main(string[] args){
            stack<Integer> mystack1 = new  Stack <Integer>();
            stack<Integer> mystack2 =new  Stack <Double>();
            Scanner s =new  Scanner(System.in);
            System.out.println("Enter Elements into the integer stack");
            for(int i=0; i<5; i++){
                int n= s.nextInt();
                mystack1..push(n);
            }
            System.out.println("Enter elements into the double stack ");
            for(int i=0; i<5; i++){
                double  m=s.next Double();
                mystack2 .push(m);
            }
            System.out.println("Elements of mystack1 ");
            for(int i=0; i<5; i++){
                    System.out.println(mystack1.pop());
            }
            System.out.println("Elements of mystack2 ");
            for(int i=0; i<5; i++){
                    System.out.println(mystack2.pop());
            }
            s.close();
        }
}
```