```
Demonstrate various string constructor with proper java program
class String &
   public static void main (String args[]) {
char C[] = {'J', 'a', v', a'3;
          Storing S1 = new Storing (C);
          String S2 = new String(S1);
           System.out.println (s1);
          System. out println (52);
        Java
          Java
Demonstrate startswith () to give output true or false
public class Main {
     public static void main (String args []) {
String test = "test String".
          String pattern = "te".
           System outprintln (test. startswith (pattern));
          System. out println (test. starts with (pattern));
```

19. Write a Java program to create an abstract class Bird with abstract method fly() and makeSound(). Greate subclass Eagle and Hawk that extend the Bird doss and implement the respective methods to describe how each bird flies and makes a sound. abstract class Bird & abstract void fly (); abstract void make Sound (); class Eagle extends Bird & System out prointin ("Fagle can fly very high"); void make Sound () { System. out. println ("Fagle makes a screpet sound Haulk extends Bird & System.out.println ("Hawk can fly moderatly high"): void fly() { void makesound() {
System.out.psintln("Hawk makes a shoill sound");

\_/\_/\_

public class Main {

public static void main (String args[]) {

Bird bird1 = new Eagle();

bird1. Hy();

bird1. makeSourd();

Bird bird2 = new Hawk(); bird2. Hye); bird2. make Jound();

3

3

O/P:

Eagle can fly very high

Eagle makes a screech sound

Hawk can fly moderatly high

Hawk makes a shrill sound

```
Write a Java program to create a generic class Stack
which holds 5 integers and 5 double values
import java. util . Empty Stack Exception;
public class Stack (T) &
  private int maxsize;
 private int top;
 private Object [] Stack Array;
public Stack (int size) {
       monssize = size;
       Stack Array = new Object [maxSizo];
 public void push (T value) {
     if (top (mare Size -1) {
             top++;
            Stack Array [top] = value;
    3 else {
     throw new Runtime Exception
            ( " Stack is full ");
  @ Suppers strannings ("unchecked")
    public T pop () {
if (!isEmpty()){
```

return (T) stackAssay [top-]

3 else &

Hhrownew EmptyStack Exception ();
3
3

public boolean is Empty () {

return (top == -1);

public int size() {

return top+1;

public static void main (String angs []) {
Stack (Integer) int Stack = new Stack (X5);
Stack (Double) double Stack = new Stack (X5);

for (int i=0; i<5; i+t) {
 intStack, push(i);
 doubleStack.push(i);
}

System.out.println ("Integer Stack");
for (int i = 0; i<5; i++)?

System.out.println(instack.pape);
?

System out println ("Double Stack");
for (int i=0; i<5; i++) {

System.out.println (double Stack.pop()); 3

0/P: Integer Stack: 3 2 0 Double Stack: 3.0 2.0 1.0 •