9/11/24 & Develop a Jour perogram to create Bank Kat sawings acc & current acc. Include recoessary rellials (a) Accept deposit & update the Balance. (b) Display (c) Compute & deposite interest (d) Permit withdrawal & update the balance. import jana. util. Scanner; Obring austoner Name, String account Number, dtring occoutType; double balance; Account (atring rostow Name, String accountly where, String accountly green double balance) this accoutNuker = accoutNuker; this accountly pe = account Type; flis. balance = balance; ( Inome oldered ) trioque bian -balance + = purand; System out, partly ('Deposit duces ful Modeled Isalone: "+ Balonce);

void display Balancel System out pately "Pocout Type: "+ Account Type);
System out paitly "Kustown Name: "+, rousdown Name);
System out pately "Account Nuber: "+ socout Nuber);
System out pately "Balance: "+ Balance); iclass Sanfat jerclends Account San Port (string auston Nove, String account Vulser, double balonce) super (austoner Nove, occout Nuber, "Sawags, belie); (sto) territion slaved) terretational bion double interest = bodonke\* interest Rate;
deposit (interest);
System out. partle (" Interest ranguled & deposited. Mplood balance: " of bodonce); void withdraw (double smort) if (amount 2 = balance) dyster of pert ("huthdremstreegh, ephoad balere! "+ balare); Systemont, perth (" Jusufficient Junels.
Whitelrous failed ").

Currect extends Account Acuble Bernice Charge; Dur Acet (steing austoner Home, Steing o cont Namber, South toler double service Charge) super (customerName, acroud Nuber, "currit", balance); this . Service Charge = service Charge", (tuems (double amout) if (amont &=palance)

palane - = amont; System p. (" tuithdraud siccessal. Updale balonce:" + palonce)" alse segs out p (" Tusufficient juds, Wirtales fail" public class Main public Static road Main ( Storing [ Jargs) Seamer 5 = new scaner ( System in); System Out gutter ("letter Customer None: "); Steing reistour Name = S. nest (n()) syoun and priet "lenter account number"); Steing accouthwher = S. Nevotth (); Seysle out paint "bulder under balere! " double intestation = 5 nextlass, Sou Acout comings Acoust = new San Accust undtalka Lin Accord Lement Accord - new Cur Accord facult Sulau, just charle; double august double interest Rate = 0.05;

3 ys. o. plm ("In Menus" In 1. Deposit In; 2. eleplay Ballice In 3 Conjutte Jutaest (Sarry Acc) In 4. westerdrow In 5. Expit (m 6: you Chaire: 1); choice = s. nevothy(); Switch (choice) ( case 1: Sys op ("anter the amount to deposit:"), amount = s. nest double (); Sys o. P ("Cheers arout type (1. Sanings / 2- Covert):"); unt accountTyphhoice = s. next Int (); suntch (acront Type theire) & samigs Hocourt. deposit (amond)? Lase 2: current Account a deposet (amount); default: sys.o.p ("Twalid Tuput"); bereak; Seys-O.p ("Chose account type (1. Sounds (2. hours):"); int chipley Choice = S. next Int(); smitch (displaychoice) Cases: saings Accord. display Balancels; case2; sevent Cont : display balance (); · sys.o.ph(" Twelled Terpert"); Leverk, rases: segs of pan ("Enter the interstitates"); sangsAccont. compute Interest (interestRate);

case 4:
Sy. out pl'entir the amount to withdraw: ") so o. p ("Choose acoust type ( sanys ) e. Count) int willderaro Choice = 3. nesttute); Switch ( witerderaw) case 1: Sauings Accord. mitheleran (anoust), break; couse 2: Current Account. Welt drow famuel. olejault: S.O.P ("Jualid Jupet"); break; case 5: system out peritter (" Exiting the purgeon..." defendt; system and pentlan (" Finalical charles. Phoasetry y Judile (choice = 5); 3. clest();

OP -

Enter customer name: Shreya. Cultir acront nuber: \$23456789 luter inital balance: 155879 Menn: I. Deposit 2. display baloure 5. Compute Juterest (Samings Account) 4. Weetholson 5- Exit Enter your choice: anter the amount to deposit: 11000 choose account Type (1- samys / 2. swort): 2 steposit Successful. Updated balance : 166879 Merrie : 1 aleposit 2. Lisplay Balonel 3. coupele Interest (savings Acront) 4. ulithdrain Center your otherice : 3 Center the interest rate: 0.2 eleposit successful. Updatet Baloree: 187054. D Tuloust computed and deposited. Upland balance: 187054.8

```
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 & void fly() {

System.out.println ("Hawk can fly moderatly high"):

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

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 (Integers) 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+t)?

System.out.println(instack.pop());

3

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 •