```
1. class and object
closs Care
      string color;
       int speed;
       void drive ()
           system. out. println ("care is driving")
 public closs maint
           public static void main (string[] arry
      ( or my ( or = new Cor ( );
       my Corr. Color= 11 Red";
       my cm. speed = 100;
```

my care . drive();

```
Access modifier
class person {
      private string name:
    public void setName (string newName)
name = new Name;
   public string get Name () }
to the first in one of
public cless main )
       public closs void main (String()
       person P = New Person();
          P. setName = new "Romizkhon";
      sout(P. setName);
```

1 4 1 1 1

3. Inheritance & proctected - Access closs Animal 4 protected string type = "Animol" 5; void display() { System out . println ("This is an class Dog extends Animal reid port() system. out. prints ~ (type+ "soys moot! public class main of public static void main (string) angg Dog d= new Dog(); d. distist. 5 d. bork(); 4. Encopsulation: class BankAccount of private double balance

public void deposit (double amount) if (amount so) balance to amount. public double setBalance(){ return balance; + rinm 22017 Tildua public closs main & public static void main (strings) BankAccount acc = new Bank Account(); acc. deposite (500); System, out. println(acc. getbolonce()): ornit sola i i Planetake Diofesion

5. Abstract eloss

Abstract class Animal of

Abstruct void makesound();

void seep() of

sustem.out.println("Bork")

closs Dog extends Animal of void makesounde) system. out. printin ("Bark Bark") baplic class wony of public Static void main (Strings) ora Dog d= new Dog(); d. on Newsound (); d. 5/Rep(); 6. Interface interface Animal of void sound (): closs cat implements Animal ? Pablic void sounded of 575 tem. out. println("Meow");

public closs main \
public static void main (strings and)

cot c = new cot();

cot c = new cot();

7. Multiple Inheritance usin Interstace

intentrue flyable?

interfore swimmable of void swime);

closs Duck implements flyable swimmable
public void fly () {

System. out. Printhn("Dack is flying)

public void swims

System, out. Println ("Duck is swimm;

public class main (

problic static void main (Strings) and

Duck d = new Ducker;

d. fly =>;

d. swim();

8. ATM (mini project)

import java. util. scamner;

public closs ATM }

private double balance = 5000.0

public void deposite (double amount)

palance += amount;





Public Void Withdaw (double amount) if (amount <= balance) belance -= amount: imo Tellese for Amountary System. out. println ("Insufficient bal ancell);

public roid eneckbolonce(K

system. out. PrintIn ("cunnent bol ance"+ balance);

main (String() orgs) uoid public static

ATM AM= new AIM().

Scanner sc= new Scanner (System.in):

while (true)

system. out. Printin ("In1. Deposite

2. Withdrw

3. bolance 4. exit");

int envice se & se NextIntadia

switch (choice) { tomorro)

System. out. print (" Enter amount: ") at m. deposite (sc. next boubus);

break;

Cose 2

5JStem. out. print ("Enteromount:"): atm = withdaw (sc. next Double); break;

atm. check Balance () break in

Sstem. exit(0):

9. Calculation (mini project)

import jovo. util. Scanneris

public cross calcalatore?

public static void main (string() arse)

Scanner se = new sconner (sastem.ix):

System. out. prod ("Enter first number!")

double Num1 = 5c. Next Doublec) -

System. out. Print ("Entere Second Number)

double Aum 2 - Sc. Next Double ()

system. out. print, ("choose operating

一, 水, /):"):

Char op=sc. Next().charat(0);

LOS = three result = 0:

switch (ob)

case HI: rusult = Wum 1+ Num Zi tres

: Tresult = Num1 - Num2 - bruk: 141: result = Num 1 x Num 2: bres new Numi / Numz Szeten, out. Pritte ("rant divide default: 525 tem. out. Printly (" Involid operation szstem, out. printin ("Result: 11