

1. Write a Program to Print numbers F

class Nymbers.

3

Ans;

Public static void main (string on

Paragona disting notes

For (int i= 1; i<=10; i++)

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system.out.println(i);

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system.out. println(i);
gr. Write a Program to calculate the sym of first
    to natural numbers
         import Java . util . scanner;
Ans:
        public class Digit-sum
         public static void main (string orgs[])
            int m, n, sum =0;
         Scanner s= new scanner (system in);
         system. out, print ("Enter the number:")
            m = s. nex + Int();
           While (m>0)
            n=m % 10;
            Sum = sum+n;
         3484em. out printin ("sumof digits:" +5)
```

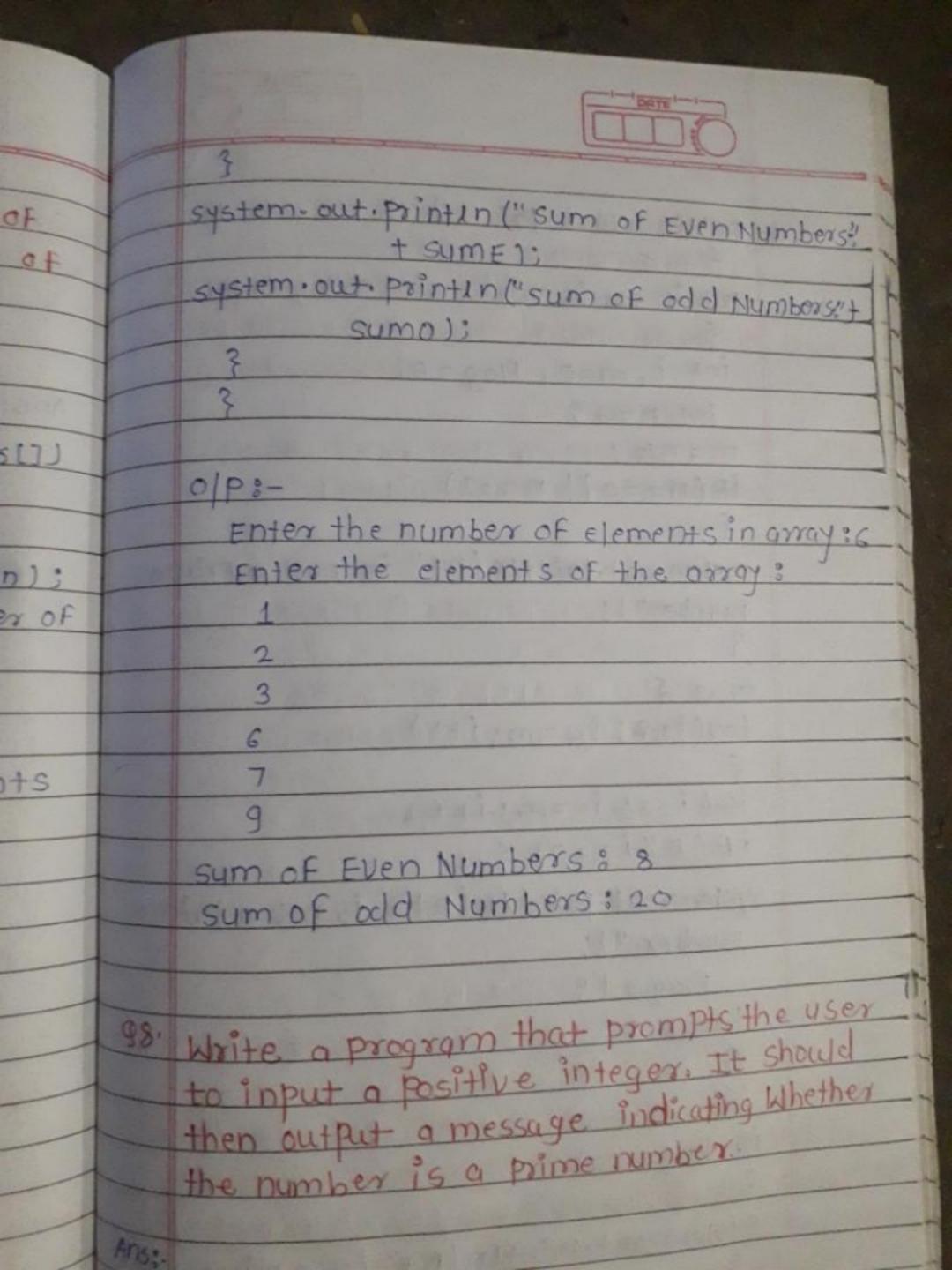
```
3) Write a Program that prompts the user to
     Printput a positive integer. It should
                                              Ans?
     then print the multiplication table of that
     numbers
Ans:- import Java . utill-scanner;
       public class multiplication-Table
       Public static void main (string angs [])
       scanners = new scanner (system.in);
        system . out. print ("Enter number;");
         int n = s. next Int();
         for (int i=1; i = 10; i++)
         system. out. Print/n(n+" +" +" + it n)
     o/P 3- Enter number:7
         7 * 2 = 14
         7 * 3 = 21
         7 +4 = 28
         7 + 5 = 35
                  - 40
                  = 56
                  - 63
                 = 70
          7 7 10
```

Write a program to find the Factorial value of any number entered through the keyboard 1115 3 class Factorial Public static void main (string orgs [7] } in+ i, Fac+ = 1; int number = 5; For (i=1; i <= number ; i++) Fact = Fact \* i; system.out. printen ("Factorial of" + number + "is +fact 1: olp :- Factorial of 5 is; 120.

```
95 Two Numbers are entered through the keybour
                                                      bhi
      Write a program to find the value of one
                                                      00
                                                      the
      humber raised to the Power of another
      (Do not use Java built-in method)
Ans :-
                                                       54
                                                 Ans:
        Java . utill . scanner;
     Public class power
                                                      pub
        Public static void main (string orgst)
          long n, p, 7=1;
          h= Long · Parse Long (args[0]);
          p= Long. parselong (args [1]);
          if (n>=0 & & P ==0)
              8=19
          else if (n == 0 3 $ P>=1)
             Y= 0:
            else q
            For (in+ i=1 ; i < = P ; i++)
        system.out. Printin(n+" 1"+p+"="+1")
```

```
0/P 3- 5/3 = 125
whe a program that prompts the usea to input
  on integer and then outputs the number with
   the digits reversed. For example . If the
   input is 12345. The output should be
   54321.
   java. util- scanner:
  public class Reverse
    public static void marn (string args [])
      int b. reverse = 0;
      System. out. printin ("Enter on
     int n = Integer. ParseInt (args [0]);
        While (n !=0)
      reverse = reverse * 10;
      reverse = reverse + n 1.10;
         n = n/10;
  system.out.println (" Reverse of the number
    is: " + reverse );
       Reverse of the number is 54321
```

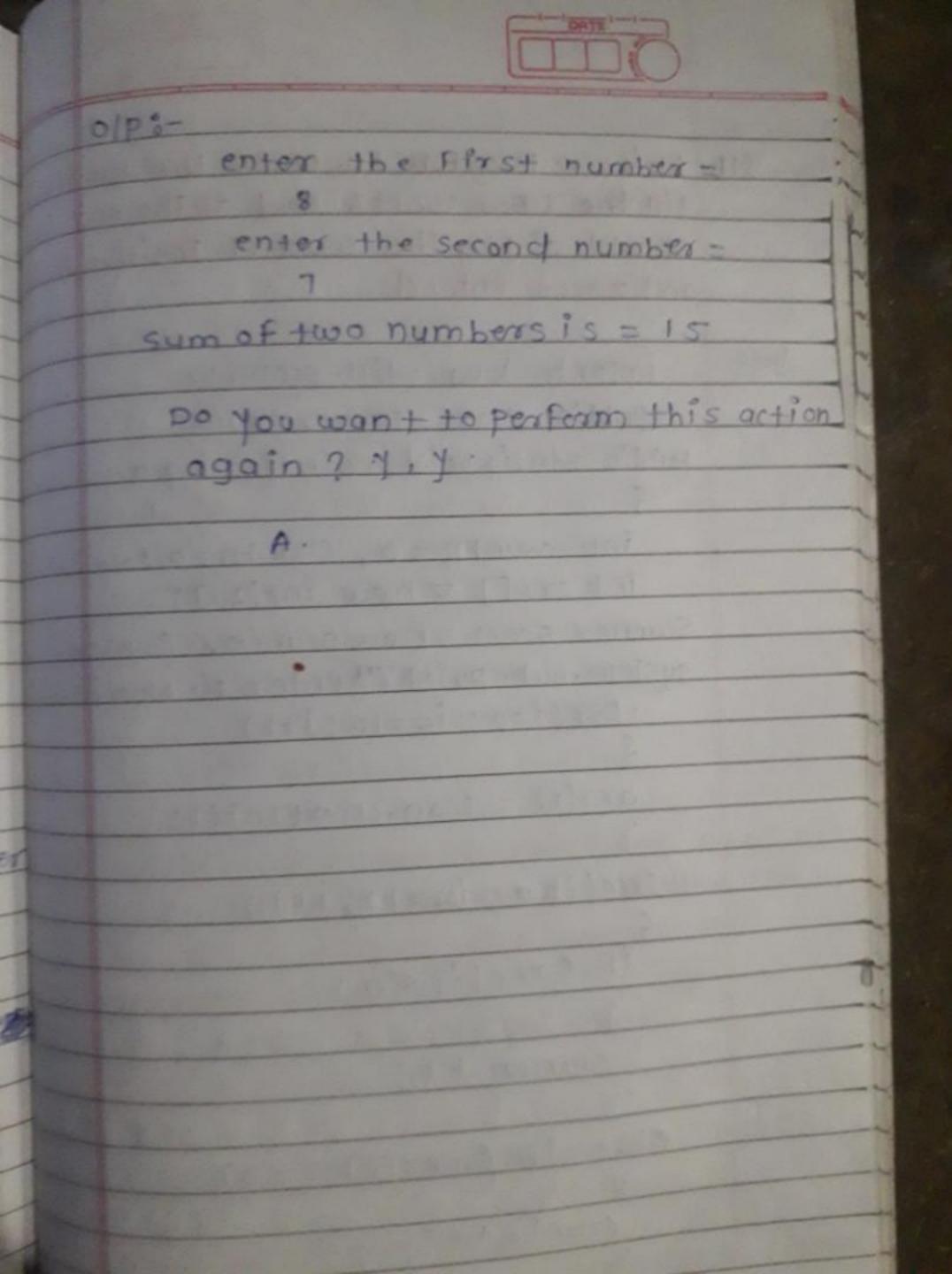
```
97) Write a program that reads a set of
     integers and then prints the sum of
            import java · util · scanner;
         Public class sum-odd-Even
Ans:
       public static void main (string args 1)
       int n, sumE = 0, sumo = 0;
      Scanners = new scanner (system.in);
      system. out. Print ("Enter the number of
        elements in array :");
        n = s. nextInt ();
       int []a = new int[n];
     system. out. printin (" Enter the elements
       for (inti=0; ikn; i++)
         a[i] = sonextInt();
       For(in+ i = 0; i< n; i++)
                                              88
         "F (a[i] % 2 == 0)
        SumE = sumE + a[i];
       eise
```



```
Public class Prime check
                                           out
Public static void main (string args [])
                                           Mai
 in+ i, m=0, flag=0;
                                            giv
 int n=3 %
                                       Anso
m = n/2 :
if (n==0|| n==1)
system.out.printin(n+" is not a prime
number");
else f
For(1=2;12=m;1++)
if ( i=2; i<=m; i++)
if (n%i==0) $
system.out. Print In (n+" is not a prime
 number. ");
   F109 = 19
 break;
 3
                                        910.
if (Flag == 0)
system.out. Printen (n+" is a prime number
```

output 3-3 is a prime number 19 Write a program to calculate HCF of two given number public class GCD & Ans: public static void main (string args[]) int n1 = 81, n2 = 153; While (n1 != n2) iF ( n1 ) h2) n1-= n2; else n2-= n1; system.out.println ("GI.C.D="+n1); output: - G.C.D=9 910. Write a do-While Loop that asks the users to enter two numbers the numbers should be added and the sum displayed the Loop should ask the user whether he or she Wishes to perform the operation again if so, the 100p should repeat otherwise it should terminate.

```
OPE
       import java. util. *;
Ans:
      public class sumdemo
      public static void main (string args)
       int n1, h2;
       char choice;
     scanner sc = new Scanner (system.in).
       system.out. print In L' enter the first
       number=");
      n1 = Sc. nextInt();
      system. out. Printin ("enter the second
        number =");
      m = sc. nextInt();
     system. out. printin ("sum of two number
             -s is =" + (n1+n2));
     system. out, printen ("do you want
           2 Press y, y");
     choice = Sc. next(). charAt (0);
     While (choice == 'y'll choice == 'y'
```



5451 911. Write a program to enter the number. till the user wants and at the end in 5/51 should display the count of Positive, negati and zeros entered import java, utill. scanner Anss-Public class Java program. public static void main (string args[]) int countp = 0, countn = 0, countz=0; int corr[] = new int[20]; Scanner scan = new scanner (systeming system.out. print (" Enter 10 Numbers:" For (i=0; i = 10; i++) arr[i] = scan, nextInt(); For(i=0; i = 10; i+) if (077[i] <0) Ans: county ++; else if (arr[i] == 0) countz ++ . else (oun+p++ ;

systemout printin (count P + "Positive numbers"); system-aut-println("In" + (aun+n+" Negative"); system-out. Printin ("In"+ coutz +" zero"); 0/P %-Enter 10 numbers 6 .. 7 9 - 6 7.8 9 positive numbers Negative numbers zero

```
(12) Write a Program to enter the numbers
    till the usex wants and at the end it
    should display the count longest and
    smallest Number
ADSS
     import Java · utill · scanners:
     public class Lorgest smallest Numberss
        private static scanner input?
     public static void morn (string engs[])
        int count, items;
        int newnum = 0;
         Port his Larrae = 0;
         int small = 0;
     input = new scanner (system.in);
    system out, printin (" How many numbers
         you want to enter ?");
      items = input. nextInt();
   system. out. primin (" Enter" + items + "number
      For (count = 0; count litems; count ++)
       newnum = Input. nextInt();
         if ( Lorge ( newnum)
               Large = newnum;
         if (small = = 0)
                small - nownym;
```



else if (newnum <= Lowes small)
small = newnum;

system-out. printkn ("The Large number is" + Large );

system. out. printin(" The small number is" + small;

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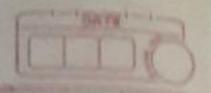
Q13.

Ans:

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013. Write a Program to print out All Armstrong
    numbers between 1 and 500, IF sum of
    cubes of each digit of the number is
    equal to the number Itself, then the number
    is called an Amstrong number.
    For Cx. 153=(1*1*1) + (5*5*5)+(3*3*3)
An6:
        public class Armstrong
       public static void main (string args[])
        int num, temp, rem = 0, Sum=0, 1, cube;
         num=13
        temp=1;
        For (i=1; ic 500; i++)
         While (num!=0)
         rem= num % 10;
         cube = (rem * rem * rem);
        Sum = sum + (4be;
         num = num /10;
         if (sum == temp)
       system. out. printin(+ temp);
          rem=0;
          sum = 0;
           cube = 0;
```

temp = i+1; num = 1+25 . 123 OP 3-370 371 407 A FEB TO THE PARTY OF THE PARTY TARREST MARKET

MINE OF MANGERIAN SEL WHITE Y STRANGER OF FILE SE 15 12 10111 HOLLE 4, 24, 24, 31, 911 41, 41611 6444445444 10 500 to 300 10 11 11 11 11 11 11 SHAME CHOSE FROMENCE THERE SHARE WERE MILET SHARE STATES WATER SAIS THE BURE SHOULD STORE STO School Strate St System Black Antoli, 5356600 542657 181162,5 5446 ( = 1 1) ( 6= 10-2 1, (99) R= 4865 280000 CHAY 22 5140 46 54 39 WY 800 6G 649 The state of



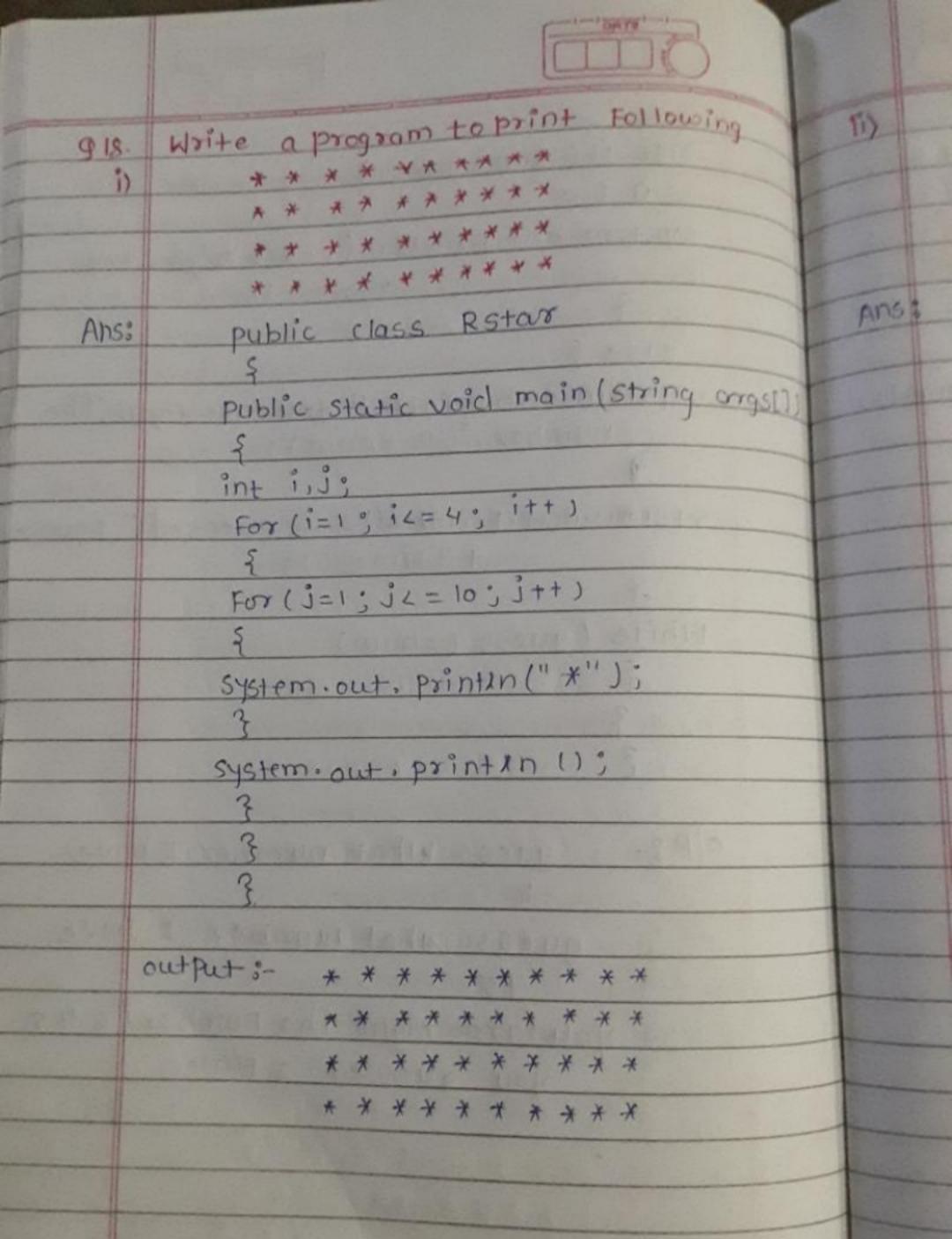
915) Write a program to calculate the sum (916) con of following series where his input od by user 1+1/2+1/3+1/4+1/5+---1/1 WY import Java. utill. \*; Ans:u public class series Ans: Public static void main (string args[]) Scanner sc = new scanner (system in); int inn; int sum = 0.0; system. out. printin ("enter o number="); n= Sc. nextint(): For (i=1; ic=n; i++) sum = sum + 1.0 /i; system-out, print In ("The value of the serie is = " + sum ); 0/P %-2 - 2 8 9 3 3 3

OIL

```
gle) compute the natural Logarithm of 2, by
      adding up to h terms in the series 1-1/2+
       113-114+115-110
      Where n'is a positive integer and input by
       uses"
  Ans: (1)
            Import java util . *;
            Public class Logarithm.
          Public static void main(string angs ())
          scanner sc = new scanner (systemin);
           int i, n, sign = -1;
            double sum = 0;
        system.out. Printin ("enter the value of n");
           n = sc · nextInt();
           For (1=1; ic=n; i++)
            sign * = -1;
ies
           sym + = sign x1.0/i,
         system. out. printin("1092;" + sum);
                Enter the value of n 5
    0/0 3-
                109 2: 0.78333
```

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25-	Write a program that generate a roade		eise
	THE WALL WAS THE WALL THESE		0
	When the remober is it the works age.		5454
	to believe then the mondom number the		
	program should display too Law.		08.3
	try agin." the program Should use		19
	LOOP that reports untill the user comes		SYS
	guessess the random number		
An 51		TOWN	
	import java. util. Scanner. +;		545
	prulic coss gome		
	5		
	Public		Whi
	5		
	Sconner KB = new sconner (System.in)		
	int num = 45 ;		
	int guess = 0;		
	in+ coun+ = 0;		OIP
	int guessess = 0;		
	do 5		
	system, out-println (" guess was no		
	What number I have ?");		
	guess = KB. next Int (1;		
	guesses to;		
	ip (num > guess)		
	5		
		1	
	System, out-println (" too Low, Try again	-	
	3	Name of Street	Page .

```
else if (Num < guess)
om
       system.out, printin ("Two high, try
25
                       again');
         else {
        system-out printin ("you are right; the
ath
            number is " + num);
       system.out. printin ("you guessed:" + guesse
                    + "+imes");
       While (guess != num)
                quess What number I have
       0/P %-
              guess what number I have
           45
            you are right the number is 45
                you guessed 2 times
```



```
* *
                                                                                                                                      * * * * *
                                                                                                                                     Public class si
                                                            Ans:
                                                                                                                                     Purblic static void main (string orgs [])
الآ
                                                                                                                                              int is;
                                                                                                                                      For (i=1; i <= 5; i++)
                                                                                                                             For (j=1; j = i; j++)
                                                                                                                        System.out. printin (" *");
                                                                                                                       system.out.printin();
                                                                                                                                                                ** CHANGE TO THE LAND OF THE L
```

```
Distriction of the other
                                                       1/2
   Fill
                                                           *
                                                       Ans:
Anss
        Public class store 2
        -public static void main (string orgali)
         int 1, j, K;
         For (i=1; i = 5; i++)
         For ()=5; isi; i--)
       system.out.printin(" ");
        for ( K=1 3 K Z = 1 3 K++ )
        system.out.printin (" *") ;
       System. out. printin();
019:1
```

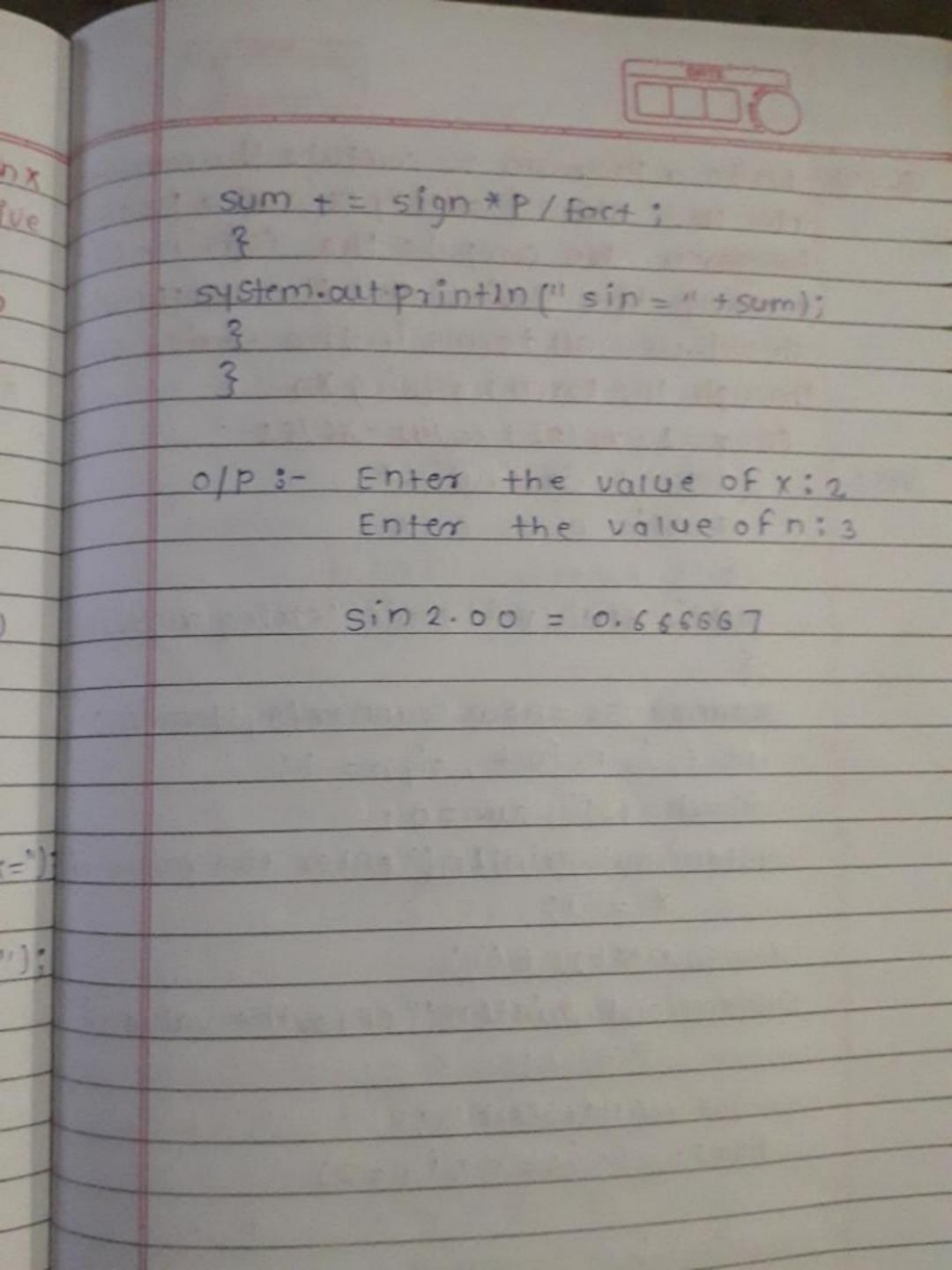
```
****** * * * *
 Public class 53
   public static void main (string orgs [])
   int i, j, K;
   For (i=1; i <= 5; i++)
  For (j=1; j <= i; j -- )
  system.out. printin (" ");
  For (k=1; K <= 2 + 1-1; K++)
  system . out. printin("x");
  system . out . printin ();
 output :-
             * * * * * * * * *
```

```
* * * * * * * * *
AMS:
       Public class 53
      public static void main (string orgs[])
       int injik;
      For (i=1; ik=5; i++)
     For (j=1; j <= 1; j --)
    system.out. printin (" ");
     FOR (K=1; KC=2 xi-1; K++)
    system · out printin(" x");
    system.out. printin();
   output :-
```

```
VIZ
       22333
      4444444
     ADS
      Public class ones
Anes
      Public static void main (string orgs1)
      Int 1,31 K;
      for (1=1; 11=5; 1++)
      for (3=5:33/35--)
      System-out Printin (" ");
      FOT (V=1; KL2 * 1-1; K++)
      system.out. Printin(+i);
      system.out. Printin();
0/12
          2 2 2
         93333
       444444
```

```
3 2 1 2 3
   4321234
   432 I 2345
    public class Two2
Ans 3+
     Public static void main (string args[])
      int 1, j, K, 1;
     For (i=1; i <= 5; i++)
     For (j=5; j>i;j--)
     system.out.println("");
     For (K=i; K>=1; K--)
     system.out. printin(+K);
     For (1=2;1(=1;1++)
     system.out.println (+1);
     system.out. printin ();
```

```
19) Write a program to compute sinx for given,
     The user should supply x and a positive
     integern. We compute the sine of x
     using the series and the compulation
     should use all terms in the series up
     through the term involving Xn.
Ans:
          import java. util. *;
          public class sinx
        Public static void moin (string args[])
       Sconner sc = new Scanner (system.in);
        int i, j, n, fact, Sign = -1;
         Float x, P, Sum=0;
      system. out . println (" enter the value of x="
        x = Sc. nextInt ();
      system.out. printen ("enter the value of n="):
       n = sc. nextInt();
       For (i=1; i = n; i+=2)
        P=1;
        Fact = 1;
       For(j=1;j<=i;j++)
        P= P * x ;
       Fact = Fact *3;
       3
sign = -1 * sign;
```



```
9.20) Write a program to compute the consine
      The user should supply x and a positive
      integern. We compute the consine of
      x using the series and the computation
      should use all terms in the series up
      through the term involving Xn
        COSX=1-X2/21+X4/41-X6/61
         import java. util. *;
Ans:-
           Public class cosx
          public static void main (string engs[])
         scanner sc = new scanner (system.in);
         int i, j, n, fact, sign = -1;
          Floor x, p, sum=0;
        system.out.println ("enter the value of
               x =");
         x = sc.nextInt();
        system. out. printin ("enterthe value of
           n = sc.nextInt ();
          for(i=1; i = n; i+=2)
            P=1;
           fac+=1;
          for ( i= 1; i <= i ', i++ )
           P=P×x;
           fact = fact *j;
```

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sum = sign \* P/fact; sign = -1 \* sign;

system. out. printin (" 606 = "+(1+sum));

0/P3-

on

of

Enter the value of x: 4

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cos 4.00 = -7.000000