```
Ass Ignment - to
     matrix addition
    Two Port Java. util. sconner;
   Matrix addition
   Sublic state void main (string E Jargs) ?
          Scanner inPut = new
          Scanner (system.in);
   int mahic JC J = [[1, 23, [5, 3]]
   intmate [J[] = [[2,3] [4,13]:
   int mat- Sum [J[]= new int [2][2]!
   int len = matal. longth:
   for Cint i=0; ixlen; i++) &
     for (int j=0; j < len; j++)
      mat-sumciscis = mathiscis + matz Ciscis;
     System out. Printa (mat. sum (istist+"|t");
      System out Printleti;
     Sort alimetof name:
(2)
    import sava Wil. Scomner;
   Public static void main (string c Jargs) {
    Scanner input - new scanner (system in)
   string arres = (sanana", "arrle", "carrot", "hadish", "jack");
   int len = arr. length;
   charorder = input. next(). CharAt(0);
    if Corder = A') [
       for Cint 1=0; ixlen; it)
```

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for lint's = in; ixarr. length :311)[
 if Carr cis. Compareto Carress) to)
{ String temp= arreis;
   arreis = arr Es J;
   arrEi] = temp;
Tystom out. Println (Arrays, tostring (arr));
else if lorder = = 'p') {
    for Cintie of iclen ; it) E
    for links = i+1; iLarr . length : i++) {
        if larr cis. compare To larr cis) (0) {
           string temp=arrcis;
           arreis = arreis!
          arr ci] = tem?;
  3
   System-out. Println (Arrays. tostring (arr));
 matrix multiplication
Class matrix multiplication &
Rublic static void main (string E) args)
intCJE Jmat1 = {£1,23, £5,33};
int[][] matz = {{2,3}, {4,13}.
INTEDED mats result = new INTEZJEZJ:
for lint j=0; i <2; i+1)[
  for lint i =0; jez ; j+) {
    for lint k = 0; j(2; K+1) {
    resultilli] += mat I [i] [x] * matz CK ] [i]; ]]3
```

```
System.out. Print ("Mat sung = ");
 Sor Cint 1=0; 122; 111) {
    Sortints = 0 1512311) (
   System out. PrintfresultEsacsat"
  System out pontln();
 333
         putrut: Mat sum = 1005
                            22 18
 Print the Sollowing fattern
in Port Sava. ulil- Scanner:
Public class Pattern Printer E
  Public statis void main (string = 3 args) {
     Sconner input = new scanner (system.in);
    sammer out Print l'Enter the number to be Printed:");
   just x = input nextlnt(0);
  system.out. Print ("Max number of limes printed:");
  intre= input next(n/1);
 for [inti=13 i <= 2 4 21-1; it) {
   System.out. Print Istring. Value of (x) - repeat countil;
    int count=ixn?i:2*n-i
 input . (lose()
   infut
           ouPut
```

```
Print special characters separately and print number of special
Characeters in the line?
Import java util sconner;
Public class special character counter[
   Public static void main (string (Jargs) {
    Sconner input = new scanner (system in);
   sconner out. Frintbal"Enter a line of lext: ");
   string = input nextline();
   System. out print ("special characters");
  for (char (h: 5 to char Array())) {
    if ( 1choractor isletter ordigit (un)) [
      SPH:
      system.out print (th);
 System-out Print ("In Number of Special Characters: "+ SP);
 outsut
  unclift helbo
 character # *
  Spical: 2
```

```
Programe to print the inverted full Pyramid Pullery?
   im Port sava util sampur:
  Public class inverted By ramid &
    Jubli Static Void main (string [ 3 avg)){
        int no new Scanner (system in) restlates:
       for linti-n: is=1:1-1) {
          System out Print( "" refeat (n-1));
          System out Print(" +" resent (i));
                     Out Pw.
  )
    In Put's
IF Fond the factorial of n?
   im Port java util de scanners
  Public Class Factorial &
     Sablic static void main (string [ Jargs ) {
      Scanner ingut = new Scanner (system in);
      int n= input. nexthet();
     for list i=i; i= =n; fact = itt);
     System out Print mi " factorial = "+ Sact);
     inPut: 4
     out Rel: 4 factorial = 24
```

```
Composite number be tween a and b
import Java util Samur;
Public class composite Numbers {
Public static void main (string c Jargs) {
    Scanner in Put: New Scanner (system.in);
   inta= input. next (nt();
   intb= input. nextInt();
   for linti=a +1; ixb; i+t)[
      iffis composite(i)){
        system out Print (it");
Public static boolean is composite (intrum) {
     if Inum (4) return false:
    for lint-1=2; 1 <= Math. sgrt (num); it+){
    if [num ) ! i== 0) return true;
    return Salse:
 in Put: 12 19
output: 14 15 16,18
```