JAVA PROURAMMING

ASSIGNMENT

```
1) Write a program to count all prime and composite
numbers entered by the user
 import java. util. scannon;
 Public dass Princomposite Counter à
      Public static vaid main (string [3 args) 2
          Scauner scanner = new scauner (system.in);
       ink Primilount = 0;
                                     they been
       int comparite count = b;
system. out. Bristly ("Enter numbers (:");
while ( true) &
     ink num = scanner. nextInt ();
     36 (mm 10) 1
          break;
      of (is prime (num)) &
           Brime Wunt 4+ ;
       Bulse if (num >1) [
          composite Count ++;
       y
      y
 system. aut. Brintly ("Number of prime numbers: "+ Bring wound);
system out · Brintln("No. of composite numbers: "+ composite (ount);
  Y
```

```
Rublic static boolean is brince (int num) &
    31 ( num 2=1) }
        section false;
     dor (int 1=2; it= math. sout (num); i++) f
       . 2+ (nmm.1-1 ==0) {
          return false.
        suturn bun;
    E
at reduces municipal the bus reduces you all buit (2
an away and the find the sum of it and difference of it
import java. util. Avrays;
Public days averagoperations à
  Rublic static void main (string [] args) &
      dut [] avay = 15,8,2,10,15,7 3;
      int m = 2;
      int n=3;
      Arrays. sort ( array );
      int mthmax = array Larray. length - mJ;
     int new Min = away [n-1];
     int sum = who max + who in;
     dut différence = menmax - nehmin;
```

```
system aut · Printly (" Mth maximum munber:" + mth Max);
rystem. aut. Brintln ("Nth Minimum number:"+nth Min);
system. aut. Println("Sum: + Sum);
system. out. Drintlu (" Difforme: ", difforma);
3) Find total amount present in ATM machine.
Import java. util. scanne;
Public class ATM ?
      Rublic void static main (string [] args) {
      int total Amount = 5000;
      int num 100 = 20;
       int num 500 = 10;
       int num 2000 = 5;
      int total = (num(00 x (00) + (num 600 x 500) +
                                        (num 2000 * 2000);
system. aut. Brinkln (" Tatal Amount available in ATM
                                 machine: $", + total);
   z
 3
```

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4) White a program to check if the given string and
number is falindrome or not.
 import java - util renner;
 Puklic class palindromichicker &
      Rublic static void main (string[] args) &
      scanner input = new scanner (system.in);
      Stering SI = " MADAM";
      Etring Sz = " 11;
      int lin=si. length();
      90x (int i = lu -1; 1>=0; 1--)
      Sz = Sz + SI. chan Atci);
   z
  If (S1. equals (S2))
       rysten. auc. vint (" Palindrom");
  else
       system. aut. Print ("Nat "palindrone");
5) verite a pergram to convert decimal number aquivalent
    kinary number and ortal number.
to
import java. util. scanner;
Public dass decimalto binary Octal &
      Public Static void main (String [] args) &
      scanner input = new scanner (system.in);
      system. out. Brint ("Enter a decimal number:");
           decimal: input. nextInt();
```

```
string kinary = Integer. tobinary string (decimal);
string Octal = Integer. to Octalstring (december);
system. aut. Brintln ("Binary equivalent:" + binary);
system. aut. Bruntln (" Octal equivalent: " + octal);
input. dos. ();
6) WORD PROBLEM.
import java util scanner;
lublic dan company
{
Public Hatic Vaid main (string [] arays)
 J
int ason: = {14,15,87,36,25,89,34 };
int den = over dength;
) (++i; o= i dui) reat
  For (im j=#+1; j L len; j++) &
      ] + ( con ci 3 > oon ()) }
      ind temp = avr [i];
      arn [i] = arn [j];
      am [j] = temp;
   3
Jut M=1, N=3;
[M. net ] was - man this
Wi
      Min = au [n-13;
```

```
system out Brint (M+ "Harimum (-under number = +"max");
system : out. Print (" /n" + h +" Minimum number = "+min");
I) write a program to fried the first in perfect number.
import java. util. scanner;
Rublic class forfed number
  Rublic static vald main (string () args)
 Deanner injut = new reasurer (rystem. in)
 int n = input. nextIn();
 in sum = 0, temp = 0;
 For ( int ) = 2; ) < = 1000; j++?
  1
     of (n> temp)
    Sum = 13
    For ( int 1 = 2; is); im)
      H (14.1 = =0)
           Sum = Sum +i;
      3+ ( sum == ))
    system. aux. Print (1+ ""):
    temp = temp + 1 ;
```

```
8) write a program to being the first in perfect
Mumbers.
import java. util. scanner;
Public dass Perfect numbers
1
Public static void main (string [] orgs)
d
scanner input = new scanner (system.in);
inter int n = inter. mext Int ();
     ink sum = 0, temp = 0;
      Ten (int j = 2; j = 1000; j++)
      T
      2 t (u> femb)
         Sum = 1;
      (++i; (111; s= i mi) raf
       Ĩ
        カトレシャリニ=ロ)
             Sum = Sum + ij
         Jf ( SUM == 1)
       system. aux. Prunt ()+"");
       temp = temp + 1;
```

```
all to show all redus of margaret so shield (P
 Student du four rubjects.
 import java. util. scanner 's
 Public Nas Mulents
  2
 Rublic static vald main ( string (3 arays)
    int a, = 90;
    int az = 913
     in a3 = 923
      int a4 = 93;
      int total = (a,+az+az+an);
      Float = batal 148;
      system. out. Brintle (total);
       orystem. out. Brinkly (agg);
       if (agg > 75)
           system. out . Printly ("DISTINCTION");
        Clse if (age > 60 && agg < 75)
             system. out. Printly ("First division:");
        else if ( agg >= 40 22 agg (60)
               Mystem. out · Printly ( "Third division");
         else
              system. out. Println(" fail");
```

```
10) write a program to calculate tax given number.
import java. util. scanner;
Rublic class calculator
 Public Matic vaid main ( String[] args)
1
  scanner input = new scanner (system.in);
  int ducome = input. nextIM();
  Float Lax;
       9+ (income < = 150000)
        system. out . Brinklu ( "NO tax");
   else 4 (income >=15000122 hume <= 500000)
       system.out. Brintly ("Tay = " + Income/10);
    dr if (income > = 30000 1 22 income <= 500000)
        system. out. Brintly ("Tax" = + income = (20)
     clae
       system. out. Privile ("Tax="+income 130):
```