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JAVA CON O99

ASSIGNMENT - 4

10. write a program to count all composite numbers enclosed by the prime and the next.

```

int arr[] = {4, 54, 29, 71, 7, 59, 98, 233};
int com = 0; pri = 0;
for (int i = 0; i < arr.length; i++) {
    int c = 0;
    for (int j = i; j < arr[i]; j++)
        if (arr[i] % j == 0)
            c++;
    if (c > 1)
        com++;
    else
        pri++;
}
System.out.print("composite number : " + com);
System.out.print(" prime number : " + pri);
    
```

2. Find the n^{th} maximum number and n^{th} minimum number in an array the sum of it difference is

```
int arr[] = {14, 16, 87, 36, 25, 89, 343};
```

```

int len = arr.length;
for (int i = 0; i < len; i++) {
    for (int j = i + 1; j < len; j++) {
        if (arr[i] > arr[j]) {
            int temp = arr[i];
            arr[i] = arr[j];
            arr[j] = temp;
        }
    }
}
    
```

~~ans [ij] = temp~~

3

3

3

~~int m = 1, n = 3;~~

$$\text{int mur} = \text{our } \Sigma [\text{egy} - m];$$

~~int minans [n-1];~~

```
System.out.print("maximum number = " + max);
System.out.print("minimum number = " + min);
```

```
int sum = Max + min;
```

$$\text{sum} = \max + \min$$

$$\text{Rate Diff} = \max x - \min x$$

~~System · ODE · Principle~~

System.out.println("difference = " + difference);

2. Write a program to print the total amount available in ATM machine with conditions applied.

$$n_1 = 500, d_1 = 4, n_2 = 100, d_2 = 20, n_3 = 200$$

1st Total = $(n_1 \times d_1) + (n_2 \times d_2) + (n_3 \times d_3) + (n_4 \times d_4)$
 System - Out - point C^{total} available Balance ATM + T_{in}

L1. Write a program using choice to check, string s1 = "MADAM";

~~string~~ \rightarrow = "MAPAM";

~~String Sz . "~~

`int len = s.length();`

```
for (int i = len - 1; i >= 0; i--)  
{
```

$S_2 = S_2 + S_1$, char A \neq char B

3

if (≥ 1 , $\text{Random}(\leq 1)$)

```
System.out.print ("palindrome");
```

use:

System.out.print("not pure drone")

5. Write a program to convert decimal numbers.

int dec = 15;

String bin = Integer . toBinaryString (dec);

String oct = Integer . toOctalString (dec);

System . out . println ("Binary number = " + bin);

System . out . println ("Octal number = " + oct);

6. Write a program to print the first n perfect numbers.

Scanner input = new Scanner (System . in);

int n = input . nextInt ();

int sum = 0; temp = 0;

for (int i = 2; i <= 1000; i++)

{

if (temp == 0)

sum = i;

for (int l = 2; l <= i; l++)

{

if (i % l == 0)

temp = temp + l;

}

if (sum == i)

{

System . out . println (i + " ");

temp = temp / i;

}

3

3

3

7. Write a program to print all perfect numbers.

Scanner input = new Scanner (System . in);

int n = input . nextInt ();

int sum = 0, temp = 0;

for (int i = 2; i <= 1000; i++)

```

    i6 (sum = 0)
    sum = sum + i;
    3
    i6 (sum = -i)
    4
    System.out.print(i + " ");
    temp = temp + i;
    3
    3

```

8. Write a program to enter the marks of 4 subjects.

```

int a1 = 90;
int a2 = 91;
int a3 = 92;
int a4 = 93;
int total = (a1 + a2 + a3 + a4);
float avg = total / 4.0;
System.out.println(total);
System.out.println(avg);
if (avg > 75)
    System.out.println("Distinction");
else if (avg >= 60 & avg < 75)
    System.out.println("Second division");
else if (avg > 40 & avg < 60)
    System.out.println("Third division");
else
    System.out.println("Fail");

```

9. Write a program to calculate tax given the following

Scanner input <new scanner (System.in);>

```

int income = input.nextInt();
float tax;

```

```

if (income <= 10000)

```

```

    System.out.println("No Tax");

```

else if (income >= 30000) { income (= 50000)

 System.out.print("TAX = " + income / 20);

else

 System.out.print("TAX = " + income / 30);

10. write a program to enter the marks of a student in four subjects -

 int a1 = 90;

 int a2 = 91;

 int a3 = 92;

 int a4 = 93;

 int total = (a1 + a2 + a3 + a4);

 float avg = total / 4f;

 System.out.println("Total");

 System.out.println("Avg");

 if (avg > 75)

 System.out.println("Distinction");

 else if (avg >= 50 & avg < 75)

 System.out.println("First division");

 else if (avg >= 60 & avg < 75)

 System.out.println("Second division");

 else if (avg >= 40 & avg < 60)

 System.out.println("Third division");

 else System.out.println("Fail");