

bio review Assignment 4 R. pugnax
features as a review 10/23/10 26

1. write a program to count all the prime and composite number entered by user

£48.98 25.05.93. #3.81.1113 = U10 101

Int arr[] = {4, 54, 29, 71, 7, 59, 98, 23};
int sum = addAll(arr);

```
int com=0, pri=0;
```

3. $c + bi$ is real $\Leftrightarrow c = 0 \Rightarrow i$ term is 0.

```
for (int i=0 ; i<arr.length; i++)
```

all $i \in \mathbb{Z} + 1 = \{i \in \mathbb{N} : i \geq 1\}$ so

} (int_E]C=0) < E (Int₀) + I

```
for (int j=1; j<arr[i]; j++)
```

3 (□) no -quest - till

if (arr[i] + j == 0)

677

quest = [17 no

3

四 (四)

COM + + ;

elz

pri ++;

3

System.out.print ("Composite number: "+cm);

```
System.out.print("In prime number "+pri);
```

2. find the m^{th} maximum number and
 n^{th} minimum number in an array

writing code otherwise find the sum of even and odd numbers in an array.

int arr[] = {14, 16, 84, 36, 25, 89, 34};

(sum, sum1, sum2, max, min) = [0, 0, 0, 0, 0]

int len = arr.length;

for (int i = 0; i < len; i++) {

(sum += arr[i]), (max = arr[i]), (min = arr[i])

for (int j = i + 1; j < len; j++) {

If (arr[i] > arr[j]) {

(sum += arr[j]), (min = arr[j]), (max = arr[i])

int temp = arr[i];

arr[i] = arr[j],

arr[j] = temp;

}

(sum += arr[j])

3

(sum += arr[i])

3

else

int m = 1, n = 3;

(sum += arr[0])

int max = arr[0 - m];

int min = arr[0 - n];

System.out.print("m + " + max + " maximum number + " + max);

System.out.print("n + " + min + " minimum number + " + min);

int sum = max + min;

int diff = max - min;

3. write a program to print the total amount available in the ATM machine with the condition applied
Get withdrawal at. register - do press
Get part 1000 at. register - do press

int n1=500, d1=4, n2=100, d2=20, n3=200, d3=200

"do x" = receives 1000 " " thing - do n4=2000, d4=1;

int total=(n1+d1)+(n2+d2)+(n3+d3)+(n4+d4);

uses system.out.print ("total Available Balance in
window & above atm, d+total);

4. write a program using choice to check

string s1="madam"; to check rotat

string s2="";

int len=s1.length();

for (int i=len; i>0; i--)
{ (de rotates) removes user input reverse
}

s2=s2+s1.charAt(i);

3

:(1,0)*id = swtch

if (st.equals(s2))

(00001 id) fi

System.out.print ("palindrome");

else (1,0) + id + swtch = swtch

System.out.print ("not palindrome");

(id + - word) all things - two, make

5. write a program to convert decimal
number - 2000(10) at 3rd if two, make
number equivalent to binary number and
octal numbers?

3 fails

("three bytes result") thing - two, make

int dec = 15;
int dec version string bin = integer to binary string (dec);
string oct = integer to octal string (dec);
00000000000000000000000000000000
System.out.println("Binary number = " + bin);
System.out.print ("Octal number = " + oct);
((ab+e)+(cb+e))+(ab+10) = 101010
Grade workers (and) 10% bonus on salary
Grade A workers

sample input and output

Enter grade of the employee : B

Enter the employee salary: 50000

Scanner input - new scanner (System.in);

int a,b;

{

bonus = b1 * (0.1);

if (b1 < 10000)

:("over budget") then - two marks

bonus = bonus + b1 + (0.02);

"probable, ten" then - two marks

System.out.print ("salary = " + b1);

System.out.print ("bonuses = " + bonus);

System.out.print ("total to be paid")

}

else {

System.out.print ("Enter valid grade")

}

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 j = 2; j <= 1000; j++) {
    if (n > temp) {
        sum += j;
        temp = n;
    }
}
System.out.println(sum);

```

$\sum_{(j,i) \in E} \text{if } (j,i) \in S \text{ then } \text{sum} = \text{sum} + 1$

If $(\text{sum} = \text{f})$

E
septeen. out. print ($t + \Delta t$)
 $temp = temp + 1$

8. write a program to print first n perfect numbers

Int $\alpha_1 = 90;$

Int. $a_2 = 91^{\circ}$ (using) μ also

187 9 $\frac{1}{2}$ = 9 $\frac{1}{2}$: 30.79 51.08 100.41

1st $a_3 = q_2$; $\text{and } q_1 = \frac{1}{q_2}$

$$1 \text{ rad} = 94^\circ$$

```

float age = total / 4.0;
// calculate average age = average revenue
System.out.print("Total");
// calculate average age = average size
System.out.print("Age");
// calculate average age = average top
if (age > 75) {
    System.out.println("distance");
} else if (age == 60) {
    System.out.println("first division");
} else if (age > 40 & age < 50) {
    System.out.println("third division");
} else {
    System.out.println("in ()");
}

```

9. write a program to calculate given the following condition

```
Scanner input = new Scanner (System.in);
int income = input.nextInt();
float tax;
if (income >= 15000)
    System.out.print("tax " + income / 10);
else if (income >= 5000 & income <= 50000)
    System.out.print("tax = " + income * 0.1);
else
    System.out.print("tax = " + income * 0.3);
```

10. write a program to enter the marks of
students in all four subjects

Int $a_1 = 90;$

Int $a_2 = a_1;$

Int $(a_3 + a_2) / 2; \text{ int } \text{ mod}$

Int $a_4 = a_3;$

Int total = $(a_1 + a_2 + a_3 + a_4);$

System.out.print("In (total);

System.out.print("In (avg);

If (avg > 75)

System.out.print("In ("distinction");

else

If (avg >= 50 & avg < 75)

System.out.print("In ("first division");

else

System.out.print("In ("second division");

else if (avg >= 40 & avg < 50)

System.out.print("In ("third division");

else

System.out.print("In ("fail");