

Practice problems Week 3.

1) import java.util.Scanner;
class array1

{

public static void main (String args[])

{
int even=0, odd=0, i, n;

Scanner ss=new Scanner (System.in);
System.out.println("Enter the size of
the array");

n=ss.nextInt();

int []a=new int[n];

System.out.println("Enter the elements of
the array");

for (i=0; i<n; i++)

{

a[i]=ss.nextInt();

}

for (i=0; i<n; i++)

{

if (i%2==0)

even+=a[i];

else

odd+=a[i];

}


```
System.out.println("The sum of even  
indices" + even);  
System.out.println("The sum of odd  
indices" + odd);
```

```
}
```

```
}
```

```
2> import java.util.Scanner;  
class number  
{
```

```
    public static void main(String args[])  
    {
```

```
        int positive=0, negative=0, zero=0, n;  
        Scanner ss=new Scanner(System.in);  
        System.out.println("Enter the size  
of the array");
```

```
        n = ss.nextInt();
```

```
        int[] a = new int[n];
```

```
        System.out.println("Enter the element  
of the array");
```

```
        for (i=0; i<n; i++)  
        {
```

```
            a[i] = ss.nextInt();  
        }
```


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```
for(i=0; i<n; i++)
```

```
{
```

```
    if (a[i] > 0)
```

```
    {
```

```
        positive++;
```

```
    }
```

```
    else if (a[i] == 0)
```

```
    {
```

```
        zero++;
```

```
    }
```

```
    else
```

```
        negative++;
```

```
}
```

```
System.out.println("Number of positive numbers" + positive);
```

```
System.out.println("Number of negative numbers" + negative);
```

```
System.out.println("Number of zero" + zero);
```

```
}
```

```
}
```



```

3) import java.util.Scanner;
public class Bill {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the number
                                of items : ");
        int n = sc.nextInt();
        double indTot, tot = 0;
        double[] rpi = new double[n];
        int[] quant = new int[n];
        for(int i=0; i<n; i++) {
            System.out.println("Enter quantity
                                of purchase and rate per item +
                                (i+1)");
            int q = sc.nextInt();
            quant[i] = q;
            rpi[i] = r;
        }
        for(int i=0; i<n; i++) {
            indTot = quant[i] * rpi[i];
            tot += indTot;
        }
        if (tot >= 10000) {

```



```
System.out.println("Discount = 5%. Total  
bill = " + tot + " Discounted bill = " +  
[tot - tot * 0.05]);
```

```
}  
else if (tot >= 7500) {  
System.out.println("Discount = 3%. Total  
bill = " + tot + " Discounted bill = " +  
[tot - tot * 0.03]);
```

```
}  
else if (tot >= 5000) {  
System.out.println("Discount = 2%.  
Total bill = " + tot + " Discounted bill = "  
+ [tot - tot * 0.02]);
```

```
}  
else {  
System.out.println("No discount. Total  
bill = " + tot);
```

```
}
```

```
}
```

```
}
```


4) import java.util.Scanner;

```
public class odd-even-array {
    public static void main (String[] args) {
        int n, j=0, k=0, sum=0, avg,
        max, min;
        Scanner s = new Scanner(System.in);
        System.out.print("Enter the size number
        of elements in array:");
        n = s.nextInt();
        int[] a = new int[n];
        int[] b = new int[n];
        int[] c = new int[n];
        System.out.println("Enter the elements
        of the array:");
        for (int i=0; i<n; i++) {
            a[i] = s.nextInt();
        }
        for (int i=0; i<n; i++) {
            if (a[i] % 2 == 0) {
                c[j] = a[i];
                sum += a[i];
                j++;
            }
            else {

```

b[k] = a[i];
k++;

}

max = c[0];

min = c[0];

for (int i=0; i<j; i++) {
 if (c[i] > max) {
 max = c[i];

}

if (c[i] < min) {
 min = c[i];

}

}

System.out.println("For the even array sum
is "+sum+" average is "+(sum/j)+
" maximum is "+max+" minimum is "
+min);

}

}

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