

Week-3 Practice Problems

```
① import java.util.Scanner;
class arr1
{
    public static void main (String args[])
    {
        int even=0;
        int odd=0, i, n;
        Scanner ss = new Scanner(System.in);
        System.out.println("Enter the size of
        the array\n");
        n = ss.nextInt();
        int [ ] a = new int[n];
        System.out.println("Enter the Array
        elements");
        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"
        System.out.println("The sum of + sum odd
        indices" + odd);
    }
}
```



```

② import java.util.Scanner;
   class number
   {
       public static void main (String args[])
       {
           int pos=0, neg=0, z=0, i, n;
           Scanner ss = new Scanner (System.in);
           System.out.println ("Enter the Array Size");
           n=ss.nextInt();
           int []a = new int[n];
           System.out.println ("Enter Array elements");
           for (i=0; i<n; i++)
           {
               a[i]=ss.nextInt();
           }
           for (i=0; i<n; i++)
           {
               if (a[i]>0)
               {
                   pos++;
               }
               else if (a[i]<0)
               {
                   neg++;
               }
               else
               {
                   z++;
               }
           }
       }
   }

```



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

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

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

```
③ import java.util.Scanner;  
public class bill  
{  
    public static void main (String args args[])  
    {  
        Scanner ss = new Scanner (System.in);  
        System.out.println ("Enter the number  
of items : /n");  
        int n = ss.nextInt();  
        double int total, t = 0;  
        double [] rPi = new double [n];  
        int [] quantity = new int [n];  
        for (int i = 0; i < n; i++)  
        {  
            System.out.println ("Enter the  
quantity and rate Per item")  
                + (i + 1);  
            int q = ss.nextDouble();  
            quantity [i] = q;  
            rPi [i] = r;  
        }  
    }  
}
```



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

```
{
```

```
    int total = quantity[i] * rpi[i];
```

```
    t += int total;
```

```
}
```

```
if (total t >= 1000)
```

```
{
```

```
    system.out.println("Discount = 5% . Total bill  
= " + t + " Discounted bill = " + (t - t * 0.05));
```

```
}
```

```
else if (t >= 7500)
```

```
{
```

```
    system.out.println("Discount = 3% . Total  
bill = " + t + " Discounted bill = " + (t - t * 0.03));
```

```
}
```

```
else if (t >= 5000)
```

```
{
```

```
    system.out.println("Discount = 2% . Total  
bill = " + t + " Discounted bill = " + (t - t * 0.02));
```

```
}
```

```
else
```

```
{
```

```
    system.out.println("No discount. Total bill  
= " + t);
```

```
}
```

```
}
```

```
}
```



```

④ import java.util.Scanner;
Public class add even array
{
    Public static void main (String args[]);
    int n, d=0, sum=0, R=0, k, max, min, avg;
    Scanner ss = new Scanner(System.in);
    System.out.println("Enter the no. of
                        elements in array\n");
    n = ss.nextInt();
    int [] a = new int[n];
    int [] b = new int[n];
    int [] c = new int[n];
    System.out.println("Enter the Array
                        elements\n");
    for (int i=0; i<n; i++)
    {
        a[i] = ss.nextInt();
    }
    for (int i=0; i<n; i++)
    {
        if (a[i] % 2 == 0) {
            c[d] = a[i];
            sum += a[i];
            d++;
        }
        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/i) + "  
maximum is " + max + " minimum is " + min);
```

```
}
```

```
}
```