

Extra Programme.

① Sum.java.

```
import java.util.*;
class sum {
    public static void main (String args[])
    {
        int arr[];
        arr = new int[10];
        int n, sum1, sum2;
        sum1 = sum2 = 0;
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the no of values to be entered
                               in an array");
        n = sc.nextInt();
        System.out.println ("Enter the values to be entered in
                               array");
        for (int i=0; i<n; i=i+2)
            arr[i] = sc.nextInt();
        for (int i=0; i<n; i=i+2)
            arr[i] = sc.nextInt();
        for (int i=0; i<n; i=i+2)
            sum2 = sum2 + arr[i];
        System.out.println ("Sum of odd indices" + sum2 +
                               "Sum of even" + sum1);
    }
}
```

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② odd-even.java.

```
import java.util.*;
class odd-even {
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter no of values");
        int n = sc.nextInt();
        int a[] = new int[n];
        int n1 = 0, n2 = 0;
        System.out.println ("Enter the values");
        for (int i=0; i<a.length; i++)
        {
            a[i] = sc.nextInt();
            if (a[i] % 2 == 0)
                n1++;
            else
                n2++;
        }
        int c[] = new int[n1];
        int b[] = new int[n2];
        int k=0, m=0;
        for (int i=0; i<a.length; i++)
        {
            if (a[i] % 2 == 0)
            {
                c[k] = a[i];
                k++;
            }
            else
            {
                b[m] = a[i];
                m++;
            }
        }
    }
}
```

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```

int sum = 0; double
double avg = 0;
int min = c[0], max = c[0];
for (int i = 0; i < c.length; i++)
{
    sum = sum + c[i];
    if (c[i] > max)
        max = c[i];
    if (c[i] < min)
        min = c[i];
}
avg = sum / k;
System.out.println("sum = " + sum);
System.out.println("Avg = " + avg);
System.out.println("Max value = " + max);
System.out.println("Minimum value = " + min);
}
}

```

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```

import java.util.*;
class cost
{
    public static void main (String args[])
    {
        int n;
        double total = 0, dist;
        double item[] = new double[20];
        int quantity[] = new int[20];
        System.out.println("Enter no of items");
        Scanner sc = new Scanner(System.in);
        n = sc.nextInt();
        for (int i = 0; i < n; i++)
        {
            System.out.println("Enter the quantity of item " + (i+1));
            quantity[i] = sc.nextInt();
            System.out.println("Enter the cost of 1 item " + (i+1));
            item[i] = sc.nextDouble();
            total = total + (quantity[i] * item[i]);
        }
        if (total >= 10000)
        {
            dist = total * 0.05;
            total = total - dist;
        }
        else if (total >= 7500 & total < 10000)
        {
            dist = total * 0.03;
            total = total - dist;
        }
        else if (total >= 5000)
        {
            dist = total * 0.02;
            total = total - dist;
        }
    }
}

```

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System.out.println("dist=" + dist);
System.out.println("total bill amount=" + total);
}

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```
quad.java x sum.java x integer.java x odd1.java x
1 import java.util.*;
2 class sum{
3     public static void main(String args[])
4     {
5         int arr[];
6         arr=new int[10];
7         int n,sum1,sum2;
8         sum1=sum2=0;
9         Scanner sc=new Scanner(System.in);
10        System.out.println("enter the no of values to be entered in an array");
11        n=sc.nextInt();
12        System.out.println("enter the values to be entered in the array");
13        for(int i=0;i<n;i++)
14            arr[i]=sc.nextInt();
15        for(int i=0;i<n;i=i+2)
16            sum1=sum1+arr[i];
17        for(int i=1;i<n;i=i+2)
18            sum2=sum2+arr[i];
19        System.out.println("sum of odd indices="+sum2+"; sum of even indices="+sum1);
20    }
21 }
22
23 }
```

```
[Arvinds-MacBook-Pro:ooj Arvind$ java sum
enter the no of values to be entered in an array
5
enter the values to be entered in the array
1
2
3
4
5
sum of odd indices=6; sum of even indices=9
```

```

1  import java.util.*;
2  class integer
3  {
4      public static void main(String args[])
5      {
6          Scanner sc=new Scanner(System.in);
7          System.out.println("Enter the number of values");
8          int x=sc.nextInt();
9          int m[]=new int[x];
10         int p=0,n=0,z=0;
11         System.out.println("Enter the values");
12         for(int i=0;i<m.length;i++)
13         {
14             m[i]=sc.nextInt();
15             if(m[i]>0)
16                 p++;
17             else if(m[i]<0)
18                 n++;
19             else
20                 z++;
21         }
22         System.out.println("Number of positive numbers="+p);
23         System.out.println("Number of negative numbers="+n);
24         System.out.println("Number of zeros= "+z);
25     }
26 }

```

```
[Arvinds-MacBook-Pro:ooj Arvind$ java integer
```

```
Enter the number of values
```

```
5
```

```
Enter the values
```

```
-2
```

```
1
```

```
-1
```

```
4
```

```
5
```

```
Number of positive numbers= 3
```

```
Number of negative numbers= 2
```

```
Number of zeros= 0
```

```
[Arvinds-MacBook-Pro:ooj Arvind$ java add
```

```

1  import java.util.*;
2  class odd_even
3  {
4      public static void main(String [] args)
5      {
6          Scanner sc=new Scanner(System.in);
7          System.out.println("Enter the number of values");
8          int x=sc.nextInt();
9          int a[]=new int[x];
10         int n=0,n1=0;
11         System.out.println("Enter the values");
12         for(int i=0;i<a.length;i++)
13         {
14             a[i]=sc.nextInt();
15             if(a[i]%2==0)
16                 n++;
17             else
18                 n1++;
19         }
20         int c[]=new int[n];
21         int b[]=new int[n1];
22         int k=0,m=0;
23         for(int i=0;i<a.length;i++)
24         {
25             if(a[i]%2==0)
26             {
27                 c[k]=a[i];
28                 k++;
29             }
30             else
31             {
32                 b[m]=a[i];
33                 m++;
34             }
35         }
36     }

```

```

[Arvinds-MacBook-Pro:ooj Arvind$ java odd_even
Enter the number of values
5
Enter the values
1
2
3
4
5

Sum= 6
Average= 3.0
Maximum value= 4
Minimum value= 2

```



```

1  import java.util.*;
2  class cost
3  {
4      public static void main(String args[])
5      {
6          int n;
7          double total=0,dist;
8          double item[]=new double[20];
9          int quantity[]=new int[20];
10         System.out.println("Enter the no of items");
11         Scanner sc=new Scanner(System.in);
12         n=sc.nextInt();
13         for(int i=0;i<n;i++)
14         {
15             System.out.println("enter the quantity of item"+(i+1));
16             quantity[i]=sc.nextInt();
17             System.out.println("enter the cost of 1 item"+(i+1));
18             item[i]=sc.nextDouble();
19             total=total+(quantity[i]*item[i]);
20
21         }
22         if (total>=10000)
23         {
24             dist=total*0.05;
25             total=total-dist;
26
27         }
28         else if(total>=7500 && total<10000)
29         {
30             dist=total*0.03;
31             total=total-dist;
32         }
33         else if(total>=5000)
34         {
35             dist=total*0.02;
36             total=total-dist;
37
38         }
39     }

```

```

System.out.println("dist="+dist);
System.out.println("total bill amount="+total);
}
}

```

```

[Arvinds-MacBook-Pro:ooj Arvind$ java cost
Enter the no of items
3
enter the quantity of item1
1
enter the cost of 1 item1
800
enter the quantity of item2
3
enter the cost of 1 item2
500
enter the quantity of item3
6
enter the cost of 1 item3
700
dist=130.0
total bill amount=6370.0
Arvinds-MacBook-Pro:ooj Arvind$

```