

SBA 1

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1. Create an array of 10 elements and print them using the for each loop.

```
for10.java
1 import java.io.*;
2 import java.util.*;
3 class for10
4 {
5     public static void main(String[] args)
6     {
7         int i;
8         Scanner sc = new Scanner(System.in);
9         System.out.println("Enter the limit of array");
10        int n = sc.nextInt();
11        int[] arr = new int[n];
12        System.out.println("Enter the elements to the array");
13        for(i=0;i<n;i++)
14        {
15            arr[i] = sc.nextInt();
16        }
17        System.out.println("The elements are :");
18        for(i=0;i<n;i++)
19        {
20            System.out.print(arr[i]+" ");
21        }
22    }
23 }
```

```
PS C:\Users\Lab\Desktop\java programs\sba1new> java for10
Enter the limit of array
8
Enter the elements to the array
22
33
21
24
34
77
88
776
The elements are :
22 33 21 24 34 77 88 776
PS C:\Users\Lab\Desktop\java programs\sba1new>
```

2. Take the number input from the console and add all the positive numbers. (not to consider the negative number if entered)

```
for10.java    posadd.java
import java.io.*;
import java.util.*;
class posadd
{
    public static void main(String[] args)
    {
        int i, sum=0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the limit of array");
        int n = sc.nextInt();
        int[] arr = new int[n];
        System.out.println("Enter the elements to the array");
        for(i=0;i<n;i++)
        {
            arr[i] = sc.nextInt();
        }
        for(i=0;i<n;i++)
        {
            if(arr[i]>0)
            {
                sum = sum + arr[i];
            }
        }
        System.out.println("Sum of positive numbers is : " + sum);
    }
}
```

```
PS C:\Users\Lab\Desktop\java programs\sba1new> javac posadd.java
PS C:\Users\Lab\Desktop\java programs\sba1new> java posadd
Enter the limit of array
5
Enter the elements to the array
3
4
5
6
7
Sum of positive numbers is : 15
PS C:\Users\Lab\Desktop\java programs\sba1new>
```

3. Create a labeled break and write a simple logic and execute the program.

for10.java	posadd.java
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```
1  class BreakLabel
2  {
3      public static void main(String[] args)
4      {
5          int i=10;
6          loop1:
7          while(i<20)
8          {
9              if(i==15)
10             break loop1;
11             System.out.println("i =" +i);
12             i++;
13         }
14         System.out.println("Out of the loop");
15     }
16 }
17
```

4. Do the addition of around 10 even numbers, but use the continue statement in the logic.

```
1  import java.io.*;
2  import java.util.*;
3  class EvenCont
4  {
5      public static void main(String[] args)
6      {
7          int i, sum=0;
8          Scanner sc = new Scanner(System.in);
9          System.out.println("Enter the limit of array");
10         int n = sc.nextInt();
11         int[] arr = new int[n];
12         System.out.println("Enter the elements to the array");
13         for(i=0; i<n; i++)
14         {
15             arr[i] = sc.nextInt();
16         }
17         for(i=0; i<n; i++)
18         {
19             if(arr[i]%2!=0)
20             {
21                 continue;
22             }
23             sum+=arr[i];
24         }
25         System.out.println("The sum of the even elements are :"+sum);
26     }
27 }
```

```
PS C:\Users\Lab\Desktop\java programs\sba1new> java EvenCont
Enter the limit of array
6
Enter the elements to the array
2
3
4
5
1
8
The sum of the even elements are :14
```