SBA 1

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

for10.java

```java
import java.io.*;
import java.util.*;
class for10
{
  public static void main(String[] args)
  {
    int i;
    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();
    }
    System.out.println("The elements are :");
    for(i=0;i<n;i++)
    {
      System.out.print(arr[i]+" ");
    }
  }
}
```

```
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

```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+=arr[i];
      }
    }
    System.out.println("The sum of the positive elements are :"+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
-2
-9
1
The sum of the positive elements are :8
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

```java
class BreakLabel
{
  public static void main(String[] args)
  {
    int i=10;
    loop1:
    while(i<20)
    {
       if(i==15)
       break loop1;
       System.out.println("i ="+i);
       i++;
    }
System.out.println("Out of the loop");
  }
}

```

```
PS C:\Users\Lab\Desktop\java programs\sba1new> javac BreakLabel.java
PS C:\Users\Lab\Desktop\java programs\sba1new> java BreakLabel
i =10
i =11
i =12
i =13
i =14
Out of the loop
PS C:\Users\Lab\Desktop\java programs\sba1new>
```

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

```java
import java.io.*;
import java.util.*;
class EvenCont
{
  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]%2!=0)
      {
        continue;
      }
      sum+=arr[i];
    }
    System.out.println("The sum of the even elements are :"+sum);
  }
}
```

```
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
```