1. PRINT EVEN NUMBER

```
package test1;
import java.util.*;
public class OddEven {

	int n []= {2,3,4,5,6,18,19,32,34,43};
	public void odd() {
		int length=n.length;
		  System.out.println("Even Number:");
		for(int i=0;i<length;++i) {
	  if(n[i] % 2 == 0) {

	   System.out.println(n[i]);
	  }

		}

	}

	public static void main(String[] args) {

   OddEven o = new OddEven();
   o.odd();
	}

}
```

OUTPUT:

```
Print only Even Number:
2
4
6
18
32
```

1. USER INPUT PRINT EVEN NUMBER

```
package test1;
import java.util.Scanner;
public class OddU {

	public static void main(String[] args) {
		Scanner s = new Scanner(System.in);
		System.out.println("Enter array size:");
		int size = s.nextInt();
		int n[]= new int[size];
		System.out.println("Enter number:");

		for(int i=0;i<size;++i) {
			n[i]=s.nextInt();
		}
		int length=n.length;
		System.out.println("\nPrint Only Even Number:");
		for(int i=0;i<length;++i) {
			if(n[i] %2==0) {
				System.out.println(n[i]);
			}
		}



	}

}
```

OUTPUT:

```
Enter array size:
10
Enter number:
2
3
4
89
78
45
34
23
22
48

Print Only Even Number:
2
4
78
34
22
48
```

2. SQUARE

```
package test1;
abstract  class Square2{
	abstract public void square();

}
class Square3 extends Square2{
	public void square() {
		int sqr;
		int n[] = {12,11,10,8,7,6,3,4};
		int length = n.length;
		System.out.println("Index\tElement\tSquare");
		for(int i=0;i<length;++i) {
```

```
                int element =n[i];
                sqr=element*element;

                System.out.println(i + "\t" + element + "\t" + sqr);
            }

        }

}
public class Square1 {

        public static void main(String[] args) {
            Square3 s = new Square3();
            s.square();

        }

}
```

OUTPUT:

Index	Element	Square
0	12	144
1	11	121
2	10	100
3	8	64
4	7	49
5	6	36
6	3	9
7	4	16

3 .FIBNOCCI SERIES

```
package test1;
import java.util.Scanner;
public class Fibonnacci {
  public static void main(String[] args) {
```

```
        Scanner s = new Scanner(System.in);
                System.out.println("Enter array size:");
                int size = s.nextInt();
                int n[] = new int[size];
                if (size >= 2) {
                n[0] = 0;
                n[1] = 1;
    for (int i = 2; i < size; ++i) {
                n[i] = n[i - 1] + n[i - 2];
    }
    System.out.println("Fibonacci Sequence:");
        for (int i = 0; i < size; ++i) {
                  System.out.println(n[i]);
                }
                } else if (size == 1) {
        System.out.println("Fibonacci Sequence:\n0");
                } else {
 System.out.println("Invalid array size. Please enter a positive integer
greater than or equal to 1.");
                      }
                   }
                }
```

OUTPUT:

```
Enter array size:
30
Fibonacci Sequence:
0
1
1
2
3
5
8
13
21
```

34
55
89
144
233
377
610
987
1597
2584
4181
6765
10946
17711
28657
46368
75025
121393
196418
317811
514229