Assignment # 02

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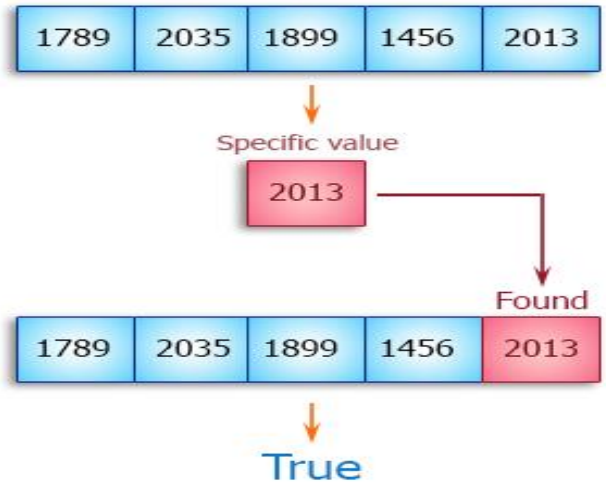
Course	:-	OOP
Program	:-	B.S(CE)

Q1. Construct a program to test if an array contains a specific value.



Source code:

```
package a2task1;
import java.util.Scanner;
public class A2task1 {
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int arr[]=new int[50];
int no,count=0;
for(int i=0;i<arr.length;i++){
arr[i]=(int)(Math.random()*100);
}
System.out.print("Please enter number which you want to check!:");
no=sc.nextInt();
for(int i=0;i<arr.length;i++){
if(arr[i]==no){
System.out.printf("Your number is present at index!:"+i);
System.out.println();
count++;
}
}
if(count>0){
System.out.println("Yes your entered number is in our array! ");
System.out.println("Your number is appeared "+count+" time in our array!");
}
else{
System.out.print("No your entered number is not in our array! ");
}
}
}
```

Output:

Please enter number which you want to check!:50
No your entered number is not in our array**!**
//Again
Please enter number which you want to check!:23
Your number is present at index!:7
Yes your entered number is in our array!
Your number is appeared 1 time in our array!
//Again
Please enter number which you want to check!:50
Your number is present at index!:15
Your number is present at index!:23
Yes your entered number is in our array!
Your number is appeared 2 time in our array!

Q2. Construct a program to find that given number or string is palindrome or not?

Source code:

```
package a2task2;
import java.util.Scanner;
public class A2task2 {
public static void main(String[] args) {
Scanner sc=new Scanner(System.in);
int no,rem,rev_num=0;
String word,rev="";
System.out.print("please enter the number which you wants to check!: ");
no=sc.nextInt();
int temp=no;
System.out.print("please enter the word which you wants to check!: ");
word=sc.next();
while(temp!=0){
rem=temp%10;
rev_num=(rev_num*10)+rem;
temp=temp/10;
}
if(rev_num==no){
System.out.println("Your number is Palindrome!");
}
else{
System.out.println("Your number is not Palindrome!");
}
for(int i=word.length()-1;i>=0;i--){
rev=rev+word.charAt(i);
}
if(rev.equals(word)){
System.out.println("Your String is Palindrome!");
}
else{
System.out.println("Your String is not a Palindrome!");
}    } }
```

Output:

please enter the number which you wants to check!: 11211
please enter the word which you wants to check!: MOM
Your number is Palindrome!
Your String is Palindrome!
//Again
please enter the number which you wants to check!: 124
please enter the word which you wants to check!: MaMa
Your number is not Palindrome!
Your String is not a Palindrome!