King Saud University College of Computer and Information Sciences Computer Science Department	
CSC 111 **Introduction to Programming with Java**	**First Semester** **1440-1441**

Tutorial # 13

Q1. Write a java segment that do the following:

a. Declare an array to hold the grades of 20 exams, and then read the grades from the user.

```
double grades[] = new double [20];
for(int i = 0; i < grades.length; i++){
System.out.println("Enter student #"+(i+1)+" grade: ");
grades[i] = input.nextDouble();
}
```

b. b. Declare an array that saves the weather degree in a particular city. Set the degree as:

{25.0, 20.0, 23.5, 19.8, 20.5}. Then print the temperatures to the user.

```
double degree[] = {25.0, 20.0, 23.5, 19.8, 20.5};
for(int i = 0; i < degree.length; i++)
System.out.println(degree[i]);
```

Q2. What is the output of the following java codes

a. 9876543210

```
int [] students=new int[10];

for (int i=0; i<students.length;i++){

students[i]=i ;}

for (int i=9; i>=0;i--){

System.out.print(students[i]);}
```

b. the two arrays are not equal

```
double [] list1={1,2,3};

double [] list2={1,2,3};

if (list1==list2)

  System.out.println("The two arrays are equal");

else

  System.out.println("The two arrays are  not equal");
```

c. 1 2 3 4 9 10

```
int[] Array1 = {1,2,3,4};

int[] Array2 = {5,6,7,8,9,10};

for (int i = 0; i < Array1.length; i++)

Array2[i]=Array1[i];

for (int i = 0; i < Array2.length; i++)

System.out.print(Array2[i] + " ");
```

d.

```
    String [] studentCard=new String[3];

    int arraySize=studentCard.length;

    studentCard[0]="Name";

    studentCard[1]="ID";

    studentCard[2]="Department";

    for (int i=0;i<studentCard.length;i++)
```

Name

ID

Department

Another name

```
    System.out.println(studentCard[i]);

  String [] studentCard2=new String[arraySize];

  studentCard2=studentCard;

  studentCard[0]="Another Name";

  System.out.println(studentCard2[0]);}
```

Q3. Let suppose that the array contains the following book category:

{"Design","Biology",”Business","Health","History" }

Method *Find* receive the book array and category and return the index of that specific category . The method should search in the array and print the index of the category if exists or “Not found" if not.

Write a Java program to find the index of any category entered by the user.

Sample Run:

Enter the category: Business

The index of the Business is: 2

```
static void find (String str, String[] s){
for(int i  = 0; i < s.length; i++){
if(str.equals(s[i]))
system.out.println(i); return;
}
system.out.println(“not found”);
}
```