

اور بڑی عمر کی عورتیں جن کو نکاح کی توقع نہیں رہی، اور وہ کپڑے اتار کر سر بچھا کر لیا کریں تو ان پر کچھ گناہ نہیں بشرطیکہ اپنی زینت کی چیزیں نہ ظاہر کریں۔ اور اس سے بھی بچیں تو یہ ان کے حق میں بہتر ہے۔ اور خدا سزا اور جانتا ہے۔ النور ۶۰

جو عورت عطر لگا کر لوگوں کے درمیان سے گزرتی ہے وہ آوارہ قسم کی عورت ہے۔ (مسلم، موطا امام مالک)

If you have not attempted this task in previous lab do attempt it again as I also discussed in class.

Task 1 (Repeated from previous lab): Declare an integer array of size 10. Initialize it randomly by values 5-10. Using nested loop to print stars in ten lines according to value in each subscript. See output for guidance.

Hint: for i=1 to size of A{ //suppose A is array

for j=1 to value of A[i]

print stars

move to next line

}

Solution is given in previous Lab [LAB 09]

```
6 3 5 5 8 8 5 3 10 1
*****
***
*****
*****
*****
*****
*****
***
*****
*
```

Implement this code before going ahead:

```
class Lab10{
    PSVM(String args[]){
        int a[]={23,36,45,11,18,19,34,26,25,39,42};
        printMax(a);
    }
    PSV printMax(int n[]){
        int i, max=n[0];
        for (i=1;i<n.length;i++)
            if (max<n[i])
                max=n[i];
        ?ln("Max:"+max);
    }
}
```

Task 2: Write function public static void showEvenOdd(int n[])

This function should show even and odd values separately in single line each. Test function by passing array from main having both even and odd values.

```
public static void showEvenOdd(int n[]){
    int i;
    System.out.print("\t Even Numbers:\t");
    for (i=0;i<n.length;i++)
        if (n[i]%2==0)
            System.out.print(n[i]+" ");
    System.out.print("\n\t Odd Numbers:\t");
    for (i=0;i<n.length;i++)
        if (n[i]%2!=0)
            System.out.print(n[i]+" ");
    System.out.println();
}
```

<p>Task 3: Write main method and call printPrimeFactors with different values less than 100 and check its working?</p> <pre>public static void main(String a[]){ printPrimeFactors(15); printPrimeFactors(32); }</pre>	<pre>public static void printPrimeFactors(int n){ System.out.print("Prime factors are:"); int i; boolean flag; while(n>1){ flag=true; for (i=2;i<=n && flag;i++) if (n%i==0){ flag=false; n=n/i; } i--; System.out.print(i+" "); } System.out.println(); }</pre>
--	--

<p>Task 4: Declare a String type array of size 5 to store addresses. Take input from user using loop. In next loop print address in format: (may write all in main method)</p> <p>Address 1: ... Address 2:</p> <pre>String add[]=new String[5]; Scanner in=new Scanner(System.in); int i; for (i=0;i<add.length;i++){ System.out.print("Enter Address:"); add[i]=in.nextLine(); } for (i=0;i<add.length;i++) System.out.println("Address "+i+": "+add[i]);</pre>
--

<p>Task 5: Declare an array of size 10 to store account balances. Initialize with values 0 to 1000000. Check all array if any value is less than 10000. Show message:</p> <p>Account No .. Low Balance Account No .. Low Balance</p> <pre>int balances[]=new int[10]; for (i=0;i<balances.length;i++) balances[i]=(int)(Math.random()*1000000); for (i=0;i<balances.length;i++) if (balances[i]<10000) System.out.println("Acoount "+(i+1)+" has low balance.");</pre>
--

Task 6: Declare an array of size 10 to store marks. Take input from user. Show message "Input marks (-1 in case of absent): ". After input show all marks like:

Roll No 1: marks / Absent

Roll No 2: marks / Absent

...

```
int marks[]=new int[10];
for (i=0;i<marks.length;i++){
    System.out.print("Enter Marks (-1 in case of absent):");
    marks[i]=in.nextInt();
}
for (i=0;i<marks.length;i++){
    System.out.print("Roll No "+(i+1)+"");
    if (marks[i]==-1)
        System.out.println("Absent");
    else
        System.out.println(marks[i]);
}
```

Task 7: Declare two String type arrays of size 100. One array to store names and second array to store addresses. Take input from user in do-while loop, where after each input ask do you want to enter more [y/n]. Use an integer type variable to handle array indexes. Send both arrays and current size to function show to give output like:

Name	Address
-----	-----
Ahsan Butt	479 Raza Block Allama Iqbal Town Lahore

...

```
Scanner in1=new Scanner(System.in);//3 scanner objects are used to avoid
Scanner in2=new Scanner(System.in);// bug in input of Scanner
Scanner in3=new Scanner(System.in);
String name[]=new String[100];
String address[]=new String[100];
String choice;
int count=0;
do{
    System.out.print("Enter Name:");
    name[count]=in1.nextLine();
    System.out.print("Enter Address:");
    address[count]=in2.nextLine();
    count++;
    System.out.print("Want to enter more [Y/N]:");
    choice=in3.next();
}while (choice.equals("Y") || choice.equals("y"));
System.out.println("Name \t\tAddress ");
System.out.println("_____ \t_____");
for (i=0;i<count;i++)
    System.out.println(name[i]+\t"+address[i]);
```

For further practice wait for homework to be sent soon InshahAllah!