

OOP LAB #05

Objective: To gain familiarity with the concept of loops.

Exercise #01: Write a program in java in which print 20 to 30 numbers using for loop.

Source code:

```
package printingnumbers;  
public class PrintingNumbers {  
    public static void main(String[] args) {  
        int i;  
        for(i=20;i<=30;i++) {  
            System.out.println(i);    }    }    }
```

Output:

```
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30
```

Exercise #02: Write a program in java and print table of 2 using do while loop.

Source code:

```
package tablebydowhile;  
public class TablebyDowhile {  
    public static void main(String[] args) {  
        int no=2,i=1;  
        do  
        {  
            System.out.println(no+"*"+i+"="+no+(i-1)*no);  
            i++;  
        }  
        while(i<=10);  
    }  
}
```

Output:

```
2*1=2  
2*2=4  
2*3=6  
2*4=8  
2*5=10  
2*6=12  
2*7=14  
2*8=16  
2*9=18  
2*10=20
```

Exercise #03: Write a program in java and print * 100 times using while loop.**Source code:**

```

package print.stearric.by.pkgwhile.loop;
public class PrintStearricByWhileLoop {
public static void main(String[] args) {
int i=1;
while(i<=100)
{
System.out.print("*");
i++;
}
}
}

```

Output:

```

*****
*****

```

Exercise #04: Write a program to print even number from 0 to 50 using for loop.**Source code:****// 1st method**

```

package printevenzerotofifty;
public class PrintEvenZeroToFifty {
public static void main(String[] args) {
int i;
for(i=0;i<=50;i+=2) {
System.out.println(i); } } }

```

//2nd method

```

package printevenzerotofifty;
public class PrintEvenZeroToFifty {
public static void main(String[] args) {
int i;
for(i=0;i<=50;i++) {
if(i%2==0) {
System.out.println(i); } } } }

```

Output:

```

0      30
2      32
4      34
6      36
8      38
10     40
12     42
14     44
16     46
18     48
20     50
22
24
26
28

```

Exercise #05: Write a program to print odd number from 1 to 100 using all three loops**Source code:****// By using For loop**

```
package printoddtonetohundred;  
public class PrintOddtonetoHundred {  
    public static void main(String[] args) {  
        int i;  
        for(i=1;i<=100;i++)  
        {  
            if(i%2!=0)  
            {  
                System.out.print(i+"\t");  
            }  
        }  
    }  
}
```

// By using While loop

```
package printoddtonetohundred;  
public class PrintOddtonetoHundred {  
    public static void main(String[] args) {  
        int i=1;  
        while(i<=100)  
        {  
            System.out.print(i+"\t");  
            i+=2;  
        }  
    }  
}
```

// By using do While loop

```
package printoddtonetohundred;  
public class PrintOddtonetoHundred {  
    public static void main(String[] args) {  
        int i=1;  
        do  
        {  
            System.out.print (i+"\t");  
            i+=2;  
        }  
        while(i<=100);  
    }  
}
```

Output:

1	3	5	7	9	11	13	15	17	19	21	23	25	27
29	31	33	35	37	39	41	43	45	47	49	51	53	55
57	59	61	63	65	67	69	71	73	75	77	79	81	83
85	87	89	91	93	95	97	99						