PRACTICE ASSIGNMENT

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10 Java Programs for Practice:

1. Addition of Two Numbers (Accept Numbers from User)

2. Check whether number is even or odd

3. Print maximum of two numbers

4. Print minimum of two numbers

5. Addition of First 10 even numbers

6. Addition of First 10 odd numbers

7. Display Fibonacci series upto n places (accept n from user)

(e.g for n = 8 op: 0,1,1,2,3,5,8,13)

8. Display following patterns

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* *

* * *

* * * *

9. Calculate factorial of a number (Accept no from user)

10. Check whether the given number is palindrome? (e.g. 121 = Palindrome)

1. Addition of Two Numbers (Accept Numbers from User)

```java
import java.util.Scanner;

public class Main
{
public static void main(String[] args) {
    int a, b;
    Scanner sc = new Scanner(System.in);
        System.out.println("Enter two numbers to add:");
        a = sc.nextInt();
        b = sc.nextInt();
        System.out.println("Sum of "+a+" and "+b+" is "+(a+b));
}
}
```

Enter two numbers to add:

345 678

Sum of 345 and 678 is 1023

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2. Check whether number is even or odd

```java
import java.util.Scanner;

public class Main
{
public static void main(String[] args) {

    int num;

    Scanner sc = new Scanner(System.in);

        System.out.println("Enter a number:");

        num = sc.nextInt();

        if(num%2==0){

            System.out.println(num+" is even");

        }else{

            System.out.println(num+" is odd");

        }

}

}
```

Enter a number:

256

256 is even

3. Print maximum of two numbers

```java
import java.util.Scanner;

public class Main
{
public static void main(String[] args) {

    int a, b;

    Scanner sc = new Scanner(System.in);

        System.out.println("Enter two numbers:");

        a = sc.nextInt();

        b = sc.nextInt();

        System.out.print("Maximum of "+a+" and "+b+" is ");

        if(a>b) { System.out.println(a); }

        else { System.out.println(b); }
}
}
```

Enter two numbers:

45 345

Maximum of 45 and 345 is 345

4. Print minimum of two numbers

```java
import java.util.Scanner;

public class Main
{
public static void main(String[] args) {
    int a, b;
    Scanner sc = new Scanner(System.in);
        System.out.println("Enter two numbers:");
        a = sc.nextInt();
        b = sc.nextInt();
        System.out.print("Minimum of "+a+" and "+b+" is ");
        if(a<b) { System.out.println(a); }
        else { System.out.println(b); }
}
}
```

Enter two numbers:

33 -6678

Minimum of 33 and -6678 is -6678

5. Addition of First 10 even numbers

```java
public class Main
{
public static void main(String[] args) {
    int c=1, sum=0;

        System.out.println("Addition of First 10 even numbers:");

        for(int n=1; c<=10; n++){

            if(n%2==0){

                sum+=n;

                c++;

            }

        }

        System.out.println(sum); //10(10+1)
}
}
```

Addition of First 10 even numbers:

110

6. Addition of First 10 odd numbers

```java
public class Main
{
public static void main(String[] args) {
    int sum=0;
        System.out.println("Addition of First 10 odd numbers:");
        for(int n=1, c=1; c<=10; n++){
          if(n%2!=0){
            sum+=n;
            c++;
          }
        }
        System.out.println(sum); //10*10
}
}
```

Addition of First 10 odd numbers:

100

7. Display Fibonacci series upto n places (accept n from user)

(e.g for n = 8 op: 0,1,1,2,3,5,8,13)

```java
import java.util.Scanner;

public class Main {

public static void main(String[] args) {

    int n, num1=0, num2=1, next;

    Scanner sc =new Scanner(System.in);

        System.out.print("Enter n to display Fibonacci series upto n places: ");

        n =sc.nextInt();

        System.out.print(num1+" "+num2);

        for(int c=1; c<=n-2;c++){

            next=num1+num2;

            System.out.print(" "+next);

            num1=num2;

            num2=next;

        }

}

}
```

Enter n to display Fibonacci series upto n places: 10

0 1 1 2 3 5 8 13 21 34

8. Display following patterns

```
*

* *

* * *

* * * *
```

```java
public class Main
{
    public static void main(String[] args) {
        for(int i=0; i<4; i++) {
            for(int j=0; j<4; j++) {
                if(i==j){
                    System.out.println("*");
                }
                if(i>j){
                    System.out.print("* ");
                }
            }
        }
    }
}
```

*

* *

* * *

* * * *

9. Calculate factorial of a number (Accept no from user)

```java
import java.util.Scanner;

public class Main
{
public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    System.out.print("Enter a number: ");

    int n = sc.nextInt();

    int fact = 1;

    while(n>1){

        fact=fact*n;

        n--;

    }

    System.out.println("Factorial of entered no. is: "+fact);

}

}
```

Enter a number: 9

Factorial of entered no. is: 362880

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10. Check whether the given number is palindrome? (e.g. 121 = Palindrome)

```java
import java.util.Scanner;

public class Main

{

public static void main(String[] args) {

    Scanner sc = new Scanner(System.in);

    System.out.print("Enter a number: ");

    int n = sc.nextInt();

    int num=n, rev = 0, rem ;

    while(n>0){

        rem=n%10;

        rev=rev*10+rem;

        n=n/10;

    }

    if(num==rev){

        System.out.println("Entered no. is Palindrome");

    }else{

        System.out.println("Entered no. is NOT Palindrome");

    }

}

}
```

Enter a number: 100282001

Entered no. is Palindrome