**Conditional Statements**

If

if else

If elseif …..elseif else

switch

**Loop statements**

for

for each

while

**Jumping statements**

break

continue

**Exercise**

**Write a java program to print the following series using while loop and for loop**

**1,2,4,7,11,16,22…. For a given number n.**

**Using for loop:**

import java.util.Scanner;  
public class Okk {  
 public static void main(String[] args) {  
 int n,i,k=1;  
 Scanner scan=new Scanner(System.in);  
 System.out.println("enter n value:");  
 n=scan.nextInt();  
 System.out.println(n);  
 for(i=0;i<n;i++)  
 {  
 k=k+i;  
 System.out.println(k);  
 }  
 scan.close();  
 } }

**Using while loop:**

import java.util.Scanner;  
public class Whle {  
 public static void main(String[] args) {  
 int n,i=0,k=1;  
 Scanner scan=new Scanner(System.in);  
 System.out.println("enter n value:");  
 n=scan.nextInt();  
 System.out.println(n);  
 while(i<n)  
 {  
 k=k+i;  
 System.out.println(k);  
 i++;  
 }  
 scan.close();  
 }  
 }

**Write a java program to print all the alphabets using while loop and for loop.**

**Using for loop:**

public class Aph {  
 public static void main(String args[]) {  
 char i;  
 for(i='a';i<='z';i++)  
 {  
 System.out.println(i);  
 }  
 }  
}

**Using while loop:**

public class Aph {  
 public static void main(String args[]) {  
 char i='a';  
 while(i<='z')  
 {  
 System.out.println(i);  
 i++;  
 }  
 }  
}

**Write a java program to print the following pattern**

**Input n = 3**

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import java.util.Scanner;  
  
public class Patrn {  
 public static void main(String args[])  
 {  
 int n,i,j,k;  
 Scanner scan=new Scanner(System.in);  
 System.out.println("enter n value:");  
 n=scan.nextInt();  
 for(i=1;i<=n;i++)  
 {  
 for(k=1;k<=i\*10;k++)  
 {  
 System.out.print("\*");   
 if(k==i\*5)  
 {  
 System.out.println("");  
 for(j=0;j<i;j++)   
 {  
   
 System.out.print("\*");  
 }  
 System.out.println("");  
 }  
   
 }  
 System.out.println("");  
 }  
 scan.close();  
 }  
  
}