# EXPERIMENT - 1 **Tarun Madav Ainampudi** 23BCE9846

1. Write a java program find the largest of 3 numbers using nested if statement.

# **INPUT:**

```
import java.util.*;
public class Ex_1_1{
  public static void main(String[] args) {
    Scanner in = new Scanner(System.in);
    System.out.print("Enter the First Number:");
    int a = in.nextInt();
    System.out.print("Enter the Second Number:");
    int b = in.nextInt();
    System.out.print("Enter the Third Number:");
    int c = in.nextInt();
if(a==b&&a==c){System.out.print("Three Numbers are Same");}
else if(a>=b && a>=c){System.out.print("Greatest Number is "+a);}
else if(b>=a && b>=c){System.out.print("Greatest Number is "+b);}
else{System.out.print("Greatest Number is "+c);}
  }
}
```

### **OUTPUT:**

Enter the First Number:65

Enter the Second Number:45

Enter the Third Number:33

Greatest Number is 65

2. Write a java program to check given character is vowels or not.

# **INPUT:**

```
import java.util.*;
public class Ex_1_2 {
    public static void main(String[] args) {
        Scanner in=new Scanner(System.in);
        System.out.print("Enter the Character:");
        char a=in.next().charAt(0);
        if (a=='a' || a=='A'){System.out.print("Given Character is Vowel");}
        else if (a=='e' || a=='E'){System.out.print("Given Character is Vowel");}
        else if (a=='i' || a=='I'){System.out.print("Given Character is Vowel");}
        else if (a=='u' || a=='U'){System.out.print("Given Character is Vowel");}
        else{System.out.print("Given Character is not a Vowel");}
}
```

# **OUTPUT:**

Enter the Character:F

Given Character is not a Vowel

3. Write a java program to generate list of even numbers using while loop.

# **INPUT**:

```
import java.util.*;
public class Ex_1_3 {
    public static void main(String[] args){
    Scanner in=new Scanner(System.in);
    System.out.print("Enter the Number:");
    int n = in.nextInt();
    int i=0;
    List<Integer> mylist=new ArrayList<>();
    while (n>=i){
        if(i%2==0){mylist.add(i);}
        i+=1;
    }
    System.out.print("Even Number List:"+mylist);
    }
}
```

### **OUTPUT:**

Enter the Number:23

Even Number List:[0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22]

4. Write a java program to generate list of prime numbers using do. While loop.

# **INPUT**:

```
import java.util.*;
public class Ex_1_4 {
  public static void main(String[] args){
  Scanner in=new Scanner(System.in);
  System.out.print("Enter the Number:");
  int n=in.nextInt();
  List<Integer> mylist=new ArrayList<>();
  int count;
  int i=1;
  int j;
  do{
    count=0;
    j=1;
    do{
      if(i%j==0){count+=1;}
      j+=1;
    }while(i>=j);
    if (count==2){mylist.add(i);}
    i+=1;
  }while(n>=i);
System.out.print("Pirme Numbers Upto Given Number:"+mylist);
}
}
```

# **OUTPUT:**

Enter the Number:8

Pirme Numbers Upto Given Number:[2, 3, 5, 7]

5. Write a java program to generate Fibonacci series using for loop.

# **INPUT**:

```
import java.util.*;

public class Ex_1_5 {
    public static void main(String[] args) {
        Scanner in=new Scanner(System.in);
        System.out.print("Enter the Number:");
        int n=in.nextInt();
        List<Integer> mylist=new ArrayList<>();
        mylist.add(0);
        mylist.add(1);int j;
        for(int i=1;i<n-1;i++){j=mylist.get(i)+mylist.get(i-1);mylist.add(j);}
        System.out.print("Fibonacci List:"+mylist);
    }
}</pre>
```

# **OUTPUT:**

Enter the Number:8

Fibonacci List: [0, 1, 1, 2, 3, 5, 8, 13]

6. Write a java program, how to implements break and continue statement.

```
INPUT:
```

```
import java.util.*;
public class Ex_1_6 {
  public static void main(String[] args){
    Scanner in=new Scanner(System.in);
    System.out.print("Enter the Number:");
    int a=in.nextInt();
    int count=1;
    System.out.println("Numbers except the given Number");
    if (1<=a && a<=10){
    while(count<=10){
    if (count==a){count++;continue;}
    else if(count==10){count++;break;}
    System.out.print(count+" ");
    count++;
    }
  }
}
```

# **OUTPUT:**

Enter the Number:7

Numbers except the given Number

12345689