Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

While Loop - IloveYou

```
ab Activities - Lab Activities (Finals)/src/labAct1Loops/ILoveYou.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
[] ILoveYou,java X [] DoWhilelLoveYou,java [] ForlLoveYou1.java [] SquareCube,java [] NetPrice,java [] AverageNumber,java
                                                                                                 SquareHash.java
    1 package labAct1Loops;
    3 public class ILoveYou
    4 {
         public static void main(String[] args)
    5⊚
    6
            int ctr = 0;
    7
    8
            while (ctr < 3)
    9
               System. out.println("I love you!");
   11
   12
            }
   13
         }
   14 }
   15
                                                                                                              <terminated> ILoveYou (1) [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 12:02:27 pm – 12:02:28 pm)
  I love you!
  I love you!
  I love you!
                                                                Writable
                                                                                              15:1:199
```

Video Link:

https://drive.google.com/file/d/1c0WZYAGIzGLehMRxU8bklN72lz-BQxIQ/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

Do-while Loop - DoWhileILoveYou

```
🖨 Lab Actitvities - Lab Activities (Finals)/src/labAct1Loops/DoWhilelLoveYou.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
🛛 ILoveYou,java 🚺 DoWhilelLoveYou,java 🗶 🕽 ForlLoveYou1,java 🚺 SquareCube,java 🚺 NetPrice,java

☑ SquareHash.java

    1 package labAct1Loops;
    3 public class DoWhileILoveYou
         public static void main(String[] args)
    5⊖
    6
    7
            int ctr;
    8
            ctr = 3;
    9
            do
   10
   11
               System. out.println("I love you!");
   12
   13
   14
            while (ctr >= 1);
   15
         }
   16 }
   17
  ■ Console ×
                                                                                                               ■ × ¾ | 🖟 🚮 🗗 🗗
  <terminated> DoWhilelLoveYou [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 12:10:22 pm – 12:10:22 pm)
  I love you!
  I love you!
  I love you!
                                                                                 Smart Insert
                                                                                               17:1:222
```

Video Link:

https://drive.google.com/file/d/140xGMEXwDgbCU8yPqWrX745W6VpQ-uXo/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

For Loop - ForlLoveYou1

```
Lab Activities - Lab Activities (Finals)/src/labAct1Loops/ForlLoveYou1.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
🛛 ILoveYou,java 🗓 DoWhilelLoveYou,java 🚺 ForlLoveYou1,java 🗶 🕽 SquareCube,java 🚺 NetPrice,java 🗓 AverageNumber,java

☑ SquareHash.java

    1 package labAct1Loops;
    3 public class ForILoveYou1
    4 {
          public static void main(String[] args)
    6
             int ctr = 0;
    8
             for (; ctr < 3; )
    9
               System. out.println("I love you!");
   10
   11
                ctr++;
   12
  13
         }
   14 }
   15
  Console X
                                                                                                                   ■ × ¾ | 🔒 🚮 🕪 🍹
  <terminated> ForlLoveYou1 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 12:14:07 pm – 12:14:07 pm)
  I love you!
  I love you!
  I love you!
                                                                    Writable
                                                                                    Smart Insert
                                                                                                  15:1:205
```

Video Link:

https://drive.google.com/file/d/1-L5vrTf3sxJZowwQGpEnpA8dFoulbEhP/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

SquareCube

```
Lab Activities - Lab Activities (Finals)/src/labAct1Loops/SquareCube.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
🗓 ILoveYou,java 📗 DoWhilelLoveYou,java 📗 ForlLoveYou1,java 🚇 SquareCube,java 🗶 NetPrice,java

☑ SquareHash.java

    1 package labAct1Loops;
    2 import java.util.Scanner;
    3 public class SquareCube
    4 {
         public static void main(String[] args)
    6
    7
            Scanner input = new Scanner(System.in);
    8
            int n, ctr = 1;
    9
            int square = 0, cube = 0;
   10
   11
            System. out.print("Enter n: ");
   12
            n = input.nextInt();
   13
            System. out.println("\nInteger\tSquare\tCube\n");
   14
   15
            while (ctr <= n)
   16
            {
   17
               square = ctr * ctr;
   18
               cube = square * ctr;
   19
               System.out.println(ctr + "\t\t" + square + "\t\t" + cube);
   20
               ctr++;
   21
   22
   23 }
   24

    × ×
    k

  □ Console ×
  <terminated> SquareCube [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 12:22:11 pm - 12:22:14 pm)
  Enter n: 3
            Square Cube
  Integer
            1
                       1
  1
            4
                       8
  2
            9
                       27
  3
```

Video Link:

https://drive.google.com/file/d/1X-7YQrLGm82MQrCgkvXIxkSd rMghDZc/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

SumOdd

```
ab Activities - Lab Activities (Finals)/src/labAct1Loops/SumOdd.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
🗓 ILoveYou,java 🗓 DoWhileILoveYou,java 🗓 ForlLoveYou1,java 🚇 SquareCube,java 🚇 SumOdd,java 🗴 🗓 AverageNumber,java

■ SquareHash.java

    1 package labAct1Loops;
    2 import java.util.Scanner;
    3 public class SumOdd
    4 {
    5⊝
        public static void main(String[] args)
    6
    7
           Scanner input = new Scanner(System.in);
    8
           int lastNum = 0;
    9
           int ctrNum = 0, sum = 0;
           boolean oddNum = false;
   10
   11
           System. out.print("Enter last number: ");
   12
           lastNum = input.nextInt();
           System. out.println();
   13
   14
           for (ctrNum=lastNum; ctrNum >= 1; ctrNum--)
   15
   16
              oddNum = ctrNum \% 2 == 1;
   17
              if (oddNum)
   18
   19
                System.out.print(ctrNum + " ");
   20
                sum += ctrNum;
   21
   22
   23
           System. out.println("\nSum is " +sum);
   24
   25 }
   26
  ■ Console ×
  <terminated> SumOdd [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 12:55:38 pm - 12:55:40 pm)
  Enter last number: 15
  15 13 11 9 7 5 3 1
  Sum is 64
```

Video Link:

https://drive.google.com/file/d/1YIU9G79ZvONLftLRH-ivg1hWNVSvlhTu/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

Break Statement - AverageNumber

```
ab Actitvities - Lab Activities (Finals)/src/labAct1Loops/AverageNumber.java - Eclipse IDE
                                                                                                                                         File Edit Source Refactor Navigate Search Project Run Window Help
Q B B
P DoWhilelLov... ☑ ForlLoveYou... ☑ SquareCube.java ☑ SumOdd.java ☑ AverageNumb... × "2
                                                                                                                ■ Console ×
                                                                                    <terminated> AverageNumber [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2)
       package labAct1Loops;
                                                                                    Enter number [-1 to quit]: 1.5
Enter number [-1 to quit]: 3.5
       import java.util.Scanner;
       public class AverageNumber
                                                                                    Enter number [-1 to quit]: 5.0
                                                                                    Enter number [-1 to quit]: 6.8
         public static void main(String[] args)
                                                                                    Enter number [-1 to quit]: -1
            Scanner input = new Scanner(System. in);
                                                                                    Average number is 4.2
    8
            double number = 0, sum = 0, divisor = 0;
    9
   10
            while (true)
   11
12
              System. out print ("Enter number [-1 to quit]: ");
    13
              number = input.nextDouble();
    14
    15
              if (number != -1)
                sum += number;
                divisor++;
    19
                break;
            System. outprintln("\nAverage number is " + sum/divisor);
   27 } 28
```

Video Link:

https://drive.google.com/file/d/187738 vEFuwAbo4TT0Vhot3LeMJiuYEo/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

Loop within a Loop - SquareHash

```
Lab Actitvities - Lab Activities (Finals)/src/labAct1Loops/SquareHash.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
🗓 Il.oveYou.java 🚺 DoWhilelLoveYou.java 🚺 ForlLoveYou1.java 🖟 SquareCube.java 🖟 DumOdd.java 🖟 AverageNumber.java 🚶 SquareHash.java 🗴
    1 package labAct1Loops;
    2 import java.util.Scanner;
    3 public class SquareHash
    4 {
         public static void main(String[]args)
    6
           Scanner input = new Scanner(System.in);
    8
           int hashSize = 0;
    9
           int row, numHash;
   10
           System. out.print("Enter size of the hash: ");
           hashSize = input.nextInt();
   11
   12
   13
           row = 1:
   14
           while (row <= hashSize)
   15
              for (numHash = 1; numHash <= hashSize; numHash++)
   16
   17
   18
                System. out.print("#");
   19
   20
              System. out println();
   21
              row++;
   22
   23
         }
   24 }
   25
                                                                                                                   ■ × ¾ | B
  <terminated> SquareHash [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 1:17:54 pm - 1:17:59 pm)
  Enter size of the hash: 5
  #####
  #####
  #####
  #####
  #####
                                                                    Writable
                                                                                    Smart Insert
                                                                                                   21:19:466
```

Video Link:

https://drive.google.com/file/d/1jdWjuiVepyJeiDERk-kAupJ52mZT-a7K/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

SimulateEx7

```
Lab Actitvities - Lab Activities (Finals)/src/labAct1Loops/SimulateEx7.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
DoWhilelLoveYou.java
ForlLoveYou1,java
SquareCube.java
SumOdd.java
AverageNumber.java
SquareHash.java

☑ SimulateEx7.java ×
    1 package labAct1Loops;
    3 public class SimulateEx7
    4 {
         public static void main(String[] args)
            int x, y, z=1;
    8
           do
    9
    10
              x = 3;
              while (x >= 1)
   11
   12
   13
                for (y = 1; y <=x; y++)
   14
   15
                   System. out.print(x + " ");
   16
   17
                System. out.println();
   18
                X--;
   19
   20
              System. out.println();
   21
   22
   23
            while(z < 3);
   24
         }
  25 }
   26
  <terminated> SimulateEx7 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (8 Jan 2022, 1:24:09 pm – 1:24:09 pm)
  333
  22
  333
  22
                                                                                                    26:1:348
                                                                     Writable
                                                                                     Smart Insert
```

Video Link:

https://drive.google.com/file/d/1W6btOX77c2Kq5KbeS7r3EsEGtIQKmNfg/view?usp=sharing

Marasigan, Vem Aiensi A. 1-BSEMC-.1 BS Computer Science Nov 28, 2021 (Jan 8, 2022)

Nested Loop – Inverted Triangle

```
👄 Lab Actitvities - Lab Activities (Finals)/src/labAct1Loops/NestedLoopAssignment.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
AverageNumb...
SquareHash.java
SimulateEx7....
NestedLoopA...
*3
                                                                                                                                     ■ Console ×
                                                                                                                                                             ■ × ¾ 🖳 🔠 🖪
        package labAct1Loops;
                                                                                                                                    <terminated> NestedLoopAssignment [Java Application
         import java.util.Scanner
                                                                                                                                    Enter Character: @
        public class NestedLoopAssignment
                                                                                                                                     @@@@@
                                                                                                                                     @ @ @ @
           public static void main(String[] args)
                                                                                                                                    @ @ @
                                                                                                                                     @ @
             Scanner store = new Scanner (System.in);
String a = " ", answer = " "; //a is the storage for the character input, answer is for the looping question char c = ' '; // c gets the char of a, ansChar gets the char for answer
                                                                                                                                    Would you like to continue? [Y/N]
                                                                                                                                    Enter Character: &
              int ans; //will serve as the counter in the looping questions
                                                                                                                                     88888
                                                                                                                                    8888
                                                                                                                                    8 8 8
                System.out.print("Enter Character: "); //user input for character choice
                                                                                                                                     Would you like to continue? [Y/N]
                a = store.next():
                c = a.charAt(0);
                                                                                                                                    Enter Character: t
                                                                                                                                    ttttt
                for (int imgSize = 5; imgSize > 0; imgSize--) //controls the rows and decrements imgSize
                                                                                                                                    tttt
                                                                                                                                    ttt
                   //to stop when there are 5 rows already
                                                                                                                                    t t
                   for (int order = imgSize; order > 0; order--) //controls the number of characters per row and decrements to
                                                                                                                                    Would you like to continue? [Y/N]
                     // have one less character to imitate an inverted triangular shape
                                                                                                                                    Enter Character: 9
                   System.out.print(c + " "); //character + one space
                                                                                                                                    99999
    24
25
26
27
                                                                                                                                    9999
                                                                                                                                    999
                   System.out.println();//cursor next line for rows
                                                                                                                                    99
    28
29
30
                                                                                                                                     Would you like to continue? [Y/N]
                //question
                System. out.print("Would you like to continue? [Y/N]\t");
                                                                                                                                    Terminate the Program
                answer = store.next(); answer = answer.toUpperCase();
                ansChar = answer.charAt(0):
                //conditional Statement
    35
36
                if (ansChar == 'Y')
                   ans = 1;
    38
                else
    41
                   System. out println ("Terminate the Program");
    43
    44
    45
46
47
              while (ans == 1); //this repeats the entire process when the user answered Y or Yes
                                                                                                                  Smart Insert
                                                                                                                                      42:61:1376
```

Video Link:

https://drive.google.com/file/d/19M5 IlxgsorfLqk7s55-eKLk3yoYVFmN/view?usp=sharing