ASSIGNMENT

ON

LOOPING CONTROL CONSTRUCTS

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Assignment

1)Nested Simple If: Permitted

Example:

Program:

```
import java.util.Scanner;
public class SimpleIf {
public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("enter first number:");
        int i=scan.nextInt();
        System.out.println("enter second number:");
        int j=scan.nextInt();
        System.out.println("enter third number:");
        int z=scan.nextInt();
        System.out.println("enter fourth number:");
        int p=scan.nextInt();
      if (i>j)
        {
                if(i>z)
                {
                      If(i>p)
                {
                        System.out.println(i+" is greatest among all numbers.");
                }
        }
}
        scan.close();
}
```

Output:

enter first number:

3

enter second number:

3

enter third number:

3

All are equal numbers.

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2.Nested if else: Permitted

Example:

Program:

```
import java.util.Scanner;
public class NestedIfElse {
public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
         int n=scan.nextInt();
         if (n % 2 == 0){
                System.out.print("Even ");
         if (n % 6 == 0)
         {
                System.out.println("and divisible by 6");
                 }
         else {
           System.out.println("and not divisible by 6");
```

```
            }
             }
        else {
            System.out.println("Odd ");
}
         scan.close();
 }
        }
```

Output:

enter a number:

6

Even and divisible by 6

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3.Nested If-Else : Permitted

Example

Program:

```
import java.util.Scanner;
public class NestedIfElse {
public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a number");
          int n=scan.nextInt();
          if (n % 2 == 0)
          {
          System.out.print("Even number");
```

```
        }
          else
          {
                System.out.println("Odd number");
         if(n % 3 == 0) {
            System.out.println("and divisible by 3");
         }
        else
        {
            System.out.println("and not divisible by 3");
         }
      }
          scan.close();
}
}
```

Output:

```
Enter a number
21
Odd number
and divisible by 3
```

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4.Nested While : Permitted

Program

Example:

```
import java.util.Scanner;
```

```
public class NestedWhile {
public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter number to start:");
           int i= scan.nextInt();
           System.out.println("Enter where to stop");
           int n=scan.nextInt();
                  while(i<=n) {
                   int j = 1;
                   while(j<=3) {
                    System.out.println(i + ":" + j);
                    j++;
                   }
                  i++;
                  }
                  scan.close();
                  }
}
```

Output:

```
Enter number to start:
4
Enter where to stop
6
4:1
4:2
4:3
```

5:1

5:2

5:3

6:1

6:2

6:3

==========

5.Nested Do-While: Permitted

Example:

Program:

```
public class NestedDoWhile {
public static void main(String[] args) {
        int row=1,column=1;
        do{
        System.out.print("");
        column=1;
        do{
        System.out.print(column+" ");
        column++;

        }while(column<=5);
        System.out.println(" ");
        row++;
        }while (row<=5);
        }
}
```

Output:

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5

1 2 3 4 5