



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

CHALLENGING LAB EXPERIMENTS- 1 to 5

**Course- Advanced JAVA Programming
Slot- L25+L26
Faculty- Prof. Priya V**

**Submitted By:
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Question 1:

Generalized code for all Low + Medium + High levels:

Java Code:

```
class Generalized {
    public static void main(String args[7]) {
        if(args.length == 4) {
            String fname = args[0];
            String lname = args[1];
            double weight = Double.parseDouble(args[2]);
            double height = Double.parseDouble(args[3]);
            double bmi = weight / (height * height);

            System.out.println("Your name: " + fname + " " + lname);
            System.out.println("Your category: ");
            if(bmi < 18.5)
                System.out.println("Underweight");
            else if(bmi >= 18.5 & bmi <= 25)
                System.out.println("Normal(healthy) weight");
            else
                System.out.println("Obese");

        } else {
            int n = args.length;
            int num_of_persons = Integer.parseInt(args[0]);
            int offset = 4;
            for(int i=0; i < num_of_persons; i++) {
                String fname = args[i+offset+1];
                String lname = args[i+offset+2];
                double weight = Double.parseDouble(args[i+offset+3]);
            }
        }
    }
}
```

```
double height = Double.parseDouble(args[i+args.length-1]);
```

```
double bmi = weight / (height * height);
```

```
System.out.println("Your name: " + fname + " " + lname);  
if (bmi < 18.5)
```

```
    System.out.println("Underweight");
```

```
else if (bmi >= 18.5 & & bmi < 25)
```

```
    System.out.println("Normal weight");
```

```
else if (bmi >= 25 & & bmi < 30)
```

```
    System.out.println("Overweight");
```

```
else
```

```
System.out.println("Obese class");
```

3

3

4

3

3

Outputs:

```
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses  
/Advanced JAVA/Lab/challenging_exercises/question1$ java Generalized krishna kum  
ar 66 1.72  
Your name: krishna kumar  
Your Category: Normal(healthy weight)
```

```
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses  
/Advanced JAVA/Lab/challenging_exercises/question1$ java Generalized 4 krishna k  
umar 66 1.72 ram manohar 89 1.5 some thing 15 1.78 anything nothing 78 1.73  
Your name: krishna kumar  
Your Category: Normal(healthy weight)  
Your name: ram manohar  
Your Category: Obese class  
Your name: some thing  
Your Category: Underweight  
Your name: anything nothing  
Your Category: Overweight
```

Question 2:

Generalized code for all Low + Medium + High levels:

Question - 2

Java code:

```
import java.util.Scanner;  
  
class Generalized {  
    public static void main(String args[]) {  
        int n;  
        Scanner scanner = new Scanner(System.in);  
        n = scanner.nextInt();  
        int numBatches = 4;  
        int numStudents = 20;  
        int batchSize, remainingStudents, numGroupsOffered;  
        int[] coursesGroupOfFourOnly = new int[4 * n];  
        int[] batchesGroupOfFourOnly = new int[4 * n];  
        int count = 0;  
        int[][][] studentMentors = new int[n][numBatches]  
            [numStudents];  
  
        for (int i = 0; i < n; i++) {  
            System.out.println("Course " + i + ":");  
            for (int j = 0; j < numBatches; j++) {  
                System.out.println("Enter num of slow learners for  
                    batch " + j + ":");  
                batchSize = scanner.nextInt();  
                numGroupsOfFour = batchSize / 4;  
                remainingStudents = batchSize - numGroupsOfFour * 4;
```

```
int k;
for (k = 0; k < remainingStudents; k++) {
    StudentMentors[i][j][k] = q;
    if (remainingStudents != 0)
        StudentMentors[i][j][k] = remainingStudents;
    else
        coursesGraphOfFourOnly[Count] = i;
        batchesGroupOfFourOnly[Count - 1] = j;
}
```

2

3

int iterator = 0;

```
if (batcherGroupOfFourOnly.length != 0) {
    System.out.println("Batches with all groups of exactly
    4");
    for (int course : coursesGraphOfFourOnly)
```

```
        if (iterator == count)
            break;
        System.out.println(course + " Course: " + "
```

```
        System.out.println("Course: " + course + ":" + ").
        System.out.println("Batch: " + batchesGroupOf
        FourOnly[iterator - 1]);
    }
}
```

2

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4

Outputs:

```
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses  
/Advanced JAVA/Lab/challenging_exercises/question2$ java Generalized  
Enter the number of courses: 3  
Course 0:  
Enter number of slow learnings for batch 0: 23  
Enter number of slow learnings for batch 1: 21  
Enter number of slow learnings for batch 2: 15  
Enter number of slow learnings for batch 3: 9  
Course 1:  
Enter number of slow learnings for batch 0: 24  
Enter number of slow learnings for batch 1: 32  
Enter number of slow learnings for batch 2: 11  
Enter number of slow learnings for batch 3: 2  
Course 2:  
Enter number of slow learnings for batch 0: 22  
Enter number of slow learnings for batch 1: 11  
Enter number of slow learnings for batch 2: 8  
Enter number of slow learnings for batch 3: 3  
Batches with all groups of exactly 4:  
Course 1: Batch 0  
Course 1: Batch 1  
Course 2: Batch 2
```

Question 3:

Generalized code for all Low + Medium + High levels:

Question - 3

```
import java.util.Scanner;  
import java.util.ArrayList;  
import java.util.Arrays;  
import java.util.Map;  
import java.util.HashMap;  
import java.util.List;
```

```
class ChemicalEquation {  
    private String equation;
```

```
    ChemicalEquation(String equation) {
```

```
        String[] molecules = sumOfMolecules.split(" + ");  
        return molecules;
```

```
}
```

```
    public ArrayList<ArrayList<String>> getMolecules() {
```

```
        String[] splittedEquation = this.equation.split("=>");
```

```
        String lhs = splittedEquation[0];
```

```
        String rhs = splittedEquation[1];
```

```
        String[] lhsMolecules = this.extractMolecules(lhs);
```

```
        int n = this.extractMolecules(rhs);
```

```
        ArrayList<String> lhsMoleculesArray = new ArrayList<String>();
```

```
(Collections.addAll(lhsMoleculesArray,
```

```
        ArrayList<String> rhoMoleculesArray = n * (n (rhsMolecules))
```

```
        ArrayList<ArrayList<String>> allMolecules = new ArrayList<ArrayList<String>>();
```

```
    allMolecules.add(lhsMoleculeArray);  
    allMolecules.add(rhsMoleculeArray);  
    return allMolecules;
```

{

```
public void printNumOfMolecules(Array<String> molecules,  
String side) {
```

```
    String molecule;  
    char firstChar;  
    int i; Digit;
```

```
    System.out.println("Num of molecules " + side + ": ");  
    for (int i = 0; i < molecules.size(); i++) {
```

```
        molecule = molecules.get(i);
```

```
        firstChar = molecule.charAt(0);
```

```
        if (firstChar >= '0' && firstChar <= '9')
```

```
            System.out.println(molecule.substring(1, molecule.length() - 1) + "  
" + firstChar);
```

```
        else
```

```
            System.out.println(molecule + " - " + i);
```

}

```
public Array<List<Map<String, Integer>> getElements(List<  
Array<String> lhsMolecules, Array<List<String> rhsMolecules)
```

{

```
    String molecule;
```

```
    String element = " ";
```

```
    Map<String, Integer> lhoElements = new HashMap<String, Integer>();
```

```
    Map<String, Integer> rhoElements = {" " " "};
```

char firstChar, ch;
int index; //

ArrayList<Map<String, Integer>> returnMapList = new ArrayList<Map<String, Integer>>();

for (int i=0; i < lhsMolecules.size(); i++) {

for (int j=0; j < lhsMolecules.get(i).size(); j++) {

Molecule = lhsMolecules.get(i);

System.out.println("Molecule " + j + " : " +

firstChar = molecule.charAt(j));

if (firstChar >= '0' && firstChar <= '9')

molecule = molecule.substring(1, molecule.length());

System.out.println("Molecule " + j + " : " +

for (int j=0; j < molecule.length(); j++) {

if (molecule.charAt(j) >= '0' && molecule.charAt(j) <= '9') {

lhsElements.put(element, lhsElements.get(element) + character.

getNumericValue(molecule.charAt(j)));

continue;

}

if (Character.isLowercase(molecule.charAt(j))) {

element = molecule.substring(j-1, j+1);

if (lhsElements.containsKey(element))

lhsElements.put(element, lhsElements.get(element) +

character.getNumericValue(firstChar));

else

lhsElements.put(element, lhsElements.get(element) +

character.getNumericValue(firstChar));

}

else {

 element = molecule.substring(j, j+1);

 if (rhsElements.containsKey(element))

 rhsElements.put(element, rhsElements.get(element));

 Character.getNumericValue(firstChar),

 else {

 rhsElements.put(element, Character.getNumericValue(firstChar));

}

}

}

 returnMapList.add(rhsElements)

for (int i=0; i < rhomolecules.size(); i++) {

 molecule = rhomolecules.get(i);

 firstChar = molecule.charAt(0);

 if (firstChar >= '0' && firstChar <= '9')

 molecule = molecule.substring(1);

for (int j=0; j < molecule.length(); j++) {

 if (Character.islowercase(molecule.charAt(j))) {

 element = molecule.substring(j-1, j+1);

 if (rhsElements.containsKey(element))

 rhsElements.put(element, rhsElements.get(element) + Character.getNumericValue(firstChar));

 else

 rhsElements.put(element, Character.getNumericValue(firstChar));

 }

}

}

```
return MapList.add(rhoElements);  
return returnMapList;
```

4

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```
public class Generalized {
```

```
public static void main (String args[]) {
```

```
Scanner keyboard = new Scanner (System.in);  
String eqn;
```

```
eqn = keyboard.nextLine();
```

```
ChemicalEquation equation = new ChemicalEquation (eqn);
```

```
ArrayList<ArrayList<String>> allMolecules  
= equation.getMolecules();
```

```
equation.printLHSofMolecules (allMolecules.get(0), "LHS");
```

```
equation.printRHSofMolecules (allMolecules.get(1), "RHS");
```

```
ArrayList<Map<String, Integer>> countList = equation.get  
getElementCount (allMolecules.get(0), allMolecules.get(1));
```

```
Map<String, Integer> lhsCount = countList.get(0);
```

```
|| rhsCount = countList.get(1);
```

```
Set<String> keys = lhsCount.keySet();
```

```
System.out.println ("LHS elements");
```

```
for (String key: lhsCount.keySet()) {
```

```
System.out.print (key + " " + lhsCount.get(key));
```

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System.out.println("RHS elements");
for (keyString key : rhsCount.keySet()) {
 System.out.println(key + " " + rhsCount.get(key));
}

g
g
g

Outputs:

```
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses  
/Advanced JAVA/Lab/challenging_exercises/question3$ java Generalized  
2NaOH + H2SO4 -> Na2SO4 + 2H2O  
Number of molecules LHS:  
NaOH- 2  
H2SO4- 1  
Number of molecules RHS:  
Na2SO4- 1  
H2O- 2  
LHS elements:  
Na 2  
S 1  
H 4  
O 6  
RHS elements:  
Na 2  
S 1  
H 4  
O 6  
The equation is balanced since number(elements in lhs) = number(elements in rhs)
```

Question 4:

Generalized code for all Low + Medium + High levels:

Question 4:

Class → Find Genome ↗

```
public static void main(String args[]) {  
    Scanner keyboard = new Scanner(System.in);  
    System.out.println("Please Enter the Genome");  
    String genome = keyboard.nextLine();  
  
    String start = "ATG";  
    String end1 = "TAG";  
    String end2 = "TAA";  
    String end3 = "TGA";  
    int flag = 0;  
  
    char[] valid = genome.toCharArray();  
    for (int i = 0; i < valid.length; i++) {  
        switch (valid[i]) {  
            case 'A':  
            case 'C':  
            case 'G':  
            case 'T':  
                break;  
            default:  
                flag++;  
                break;  
        }  
    }  
    if (flag == 1) {  
        System.out.println("Validated Alpha");  
    } else {  
        System.out.println("Invalid Alpha");  
    }  
}
```

~~int i = 0; j = 0;~~

```
System.out.println("Genes: ");
int a, b, c, d;
for (int i = 0; i < genome.length(); i++) {
    int a = genome.indexOf(Hart, i);
    if (a == -1)
        break;
    int b = genome.indexOf(end1, a+3);
    int c = genome.indexOf(end2, a+3);
    int d = genome.indexOf(end3, a+3);

    if (b == -1)
        b = genome.length() + 30;
    if (c == -1)
        c = genome.length() + 30;
    if (d == -1)
        d = genome.length() + 30;

    if ((b < c) && (b < d))
        j = b;
    else if ((c < b) && (c < d))
        j = c;
    else
        j = d;

    if (j > genome.length() || j > genome.length() + 30)
        break;
```

```

String gene = gene.substring(0, i);
if (gene.length() % 3 == 0) {
    if (!gene.equals("Pstart"))
        System.out.println(gene);
}
}
}

```

Output:

```

krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses
/Advanced JAVA/Lab/challenging_exercises/question4$ javac Genome.java
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses
/Advanced JAVA/Lab/challenging_exercises/question4$ java Genome
Enter the genome string:
TTATGTTTAAGGATGGGGCGTTAGTT
Genes in TTATGTTTAAGGATGGGGCGTTAGTT:
TTT
GGCGT

```

Question 5:**Generalized code for all Low + Medium + High levels:**Question - 5

```
import java.io.*;
```

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

```
import java.util.ArrayList;
```

```
class Film
```

```
    private String name, language, leadActor, category;
```

```
    private int duration, yearOfRelease;
```

```
    public Film()
```

```
        name = language = leadActor = category = "";
```

```
        duration = yearOfRelease = 0;
```

```
}
```

```
public Film(String name, String lang, String leadActor, String  
category, int duration, int yearOfRelease) {
```

```
    this.name = name;
```

```
    this.language = language;
```

```
    this.leadActor = leadActor;
```

```
    this.category = category;
```

```
    this.duration = duration;
```

```
    this.yearOfRelease = yearOfRelease;
```

```
}
```

```
public void setName(String name) {
```

```
    this.name = name.toLowerCase();
```

```
    System.out.println("set");
```

```
public void setLanguage(String language) {
```

```
    this.language = language.toLowerCase();
```

```
    System.out.println("set");
```

```
public void setCategory(String category) {
    this.category = category;
}

public void setYearOfRelease(int yearOfRelease) {
    this.yearOfRelease = yearOfRelease;
}

public String getName() {
    String returnName = this.name.substring(0,1).toUpperCase()
        + this.name.substring(1);
    return returnName;
}

public String getLanguage() {
    String returnLanguage = this.language.substring(0,1).
        toUpperCase() + this.language.
        substring(1);
    return returnLanguage;
}

public String getLeadActor() {
    String returnLeadActor = this.leadActor.substring(0,1).
        toUpperCase() + this.leadActor.substring(1);
    return returnLeadActor;
}

public int getYear() {
    return this.yearOfRelease;
}
```

```

class SourceOfFunctions {
    Film[][] created2DArray(Film films[]) {
        Film[][] array2D = new Film[6][films.length];
        int counter[] = new int[6];
        for (Film film: films) {
            if (film.getYearOfRelease() == 1971)
                array2D[0][counter[0]++] = film;
            else if (film.getYearOfRelease() > 1971 &&
                     film.getYearOfRelease() <= 1980)
                array2D[1][counter[1]++] = film;
            else if (film.getYearOfRelease() > 1981 &&
                     film.getYearOfRelease() <= 1990)
                array2D[2][counter[2]++] = film;
            else if (film.getYearOfRelease() > 1991 &&
                     film.getYearOfRelease() <= 2000)
                array2D[3][counter[3]++] = film;
            else if (film.getYearOfRelease() > 2001 &&
                     film.getYearOfRelease() <= 2010)
                array2D[4][counter[4]++] = film;
            else
                array2D[5][counter[5]++] = film;
        }
        return array2D;
    }
}

```

```
ArrayList<Film> getRajiniFilms (ArrayList<Film> films) {
    ArrayList<Film> rajiniFilms = new ArrayList<Film>(),
    for (Film film: films) {
        if ((film.getLeadActor().equals ("Rajinikanth")) ||
            (film.getLeadActor().equals ("Rajini")) &&
            (film.getLanguage().equals ("Tamil")) ) {
            rajiniFilms.add(film);
        }
    }
    return rajiniFilms;
}
```

```
ArrayList<Film> getArnoldFilms (ArrayList<Film> films) {
    ArrayList<Film> arnoldFilms = new ArrayList<Film>(),
    for (Film film: films) {
        if ((film.getLeadActor().equals ("Arnold")) &&
            (film.getLanguage().equals ("English"))) {
            arnoldFilms.add(film);
        }
    }
    return ArnoldFilms;
}
```

```
ArrayList<Film> getComedyFilms (ArrayList<Film> films, String  
actor) {
```

```
> ② ArrayList<Film> comedyFilmsWithActor = new ArrayList<Film>;  
    actor = actor.substring(0, 1).toUpperCase() + actor.substring(1);  
    for (Film film : films) {  
        if (film.category().equals("comedy") && film.getLeadActor()  
            .equals(actor)) {  
            comedyFilmsWithActor.add(film);  
        }  
    }  
    return comedyFilmsWithActor;
```

```
Film getShortestFilm (ArrayList<Film> films) {
```

```
    Film shortestFilm = films.get(0);
```

~~first~~

```
    for (Film film : films) {  
        if (shortestFilm.getDuration() > film.getDuration()) {  
            shortestFilm = film;  
        }  
    }  
    return shortestFilm;
```

```
class FilmMain {
```

```
    public static void main (String args[]) throws IOException
```

Scanner ~~key~~ s = new Scanner (System.in);

BufferedReader br = new BufferedReader (new

InputStreamReader (System.in));

int n;

```
System.out.print("Enter the num of movies: ");
n = scanner.nextInt();

ArrayList<Film> film = new ArrayList<Film>();
int numOffilms = 0;

for (int i=0; i<n; i++) {
    Film film = new Film();
    System.out.println("Enter film " + i + ":");
    System.out.println("-----");
    System.out.print("Enter film name: ");
    String fname = br.readLine();
    film.setName(fname);
    System.out.print("Enter film lead actor: ");
    String lead = br.readLine();
    System.out.print("Enter film category: ");
    String category = br.readLine();
    film.setCategory(category);
    System.out.print("Enter duration ");
    int duration = Integer.parseInt(br.readLine());
    film.setDuration(duration);
}
```

Y

```
SourceOfFunctions sof = new SourceOfFunctions();  
ArrayList<Film> raynifilms = sof.getRaynifilms(films);  
ArrayList<Film> arnoldfilms = sof.getArnoldFilms(films);  
// comedyFilms = sof.getComedyFilms(films);
```

```
for (Film raynifilm: raynifilms) {  
    System.out.println("Film name: " + raynifilm.getName());  
    System.out.println("Film lang: " + raynifilm.getLang());  
    System.out.println("Film actors: " + raynifilm.getLeadActors());  
    System.out.println("Film category: " + raynifilm.getCategory());  
    System.out.println("Film duration: " + raynifilm.getDuration());  
    System.out.println("Film yearOfRel: " + raynifilm.getYearOfRelease());
```

7p

// same for arnoldfilm variable

```
Film shortestFilm = sof.getShortestFilm(arnoldFilms);  
System.out.println("Shortest Arnold film: " + shortestFilm.getName());
```

```
for (Film comedyFilm: comedyFilms) {  
    System.out.println("Film name: " + comedyFilm.getName());  
    System.out.println("Language: " + comedyFilm.getLang());  
    System.out.println("Actor: " + comedyFilm.getActor());  
    // Print category, duration, yofrelease  
    // similarly
```

```
System.out.println("Enter the actor to get his comedy  
Movies: ");
```

```
String actor = br.readLine();
```

```
ArrayList<Film> actorComedyFilms = bof.getComedyFilms  
(films, actor);
```

```
for (Film comedyFilm : actorComedyFilms) {
```

```
System.out.println("Name: " + comedyFilm.getName());
```

```
System.out.println("Lang: " + comedyFilm.getLang());
```

```
" " " " ("Film actor: " + comedyFilm.getActor());
```

```
System.out.println("Category " + comedyFilm.getCategory());
```

```
System.out.println("Year of Rel " + comedyFilm.getYearOfRel());
```

```
}
```

```
}
```

```
y
```

Output:

```
krish-thorcode@kkm-ubuntu: ~/My_files/College_related_stuffs/Fall_2018-19/Courses/Advanced JAVA/Lab/challenging_exercises/questions5
n5
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses/Advanced JAVA/Lab/challenging_exercises/questions5$ clear
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses/Advanced JAVA/Lab/challenging_exercises/questions5$ java FilmMain
Enter the number of movies: 4
Film 0:
-----
Enter film name: Krishna
setName: krishna
Enter film language: tamil
setLanguage: tamil
Enter film lead actor: rajini
setLeadActor: rajini
Enter film category: comedy
setCategory: comedy
Enter duration of the film: 2
setDuration: 2
Enter the year of release: 2012
setYOR: 2012
Film 1:
-----
Enter film name: Kumar
setName: kumar
Enter film language: tamil
setLanguage: tamil
Enter film lead actor: rajini
setLeadActor: rajini
Enter film category: comedy
setCategory: comedy
Enter duration of the film: 1
setDuration: 1
Enter the year of release: 2013
setYOR: 2013
Film 2:
-----
Enter film name: Mahto
setName: mahto
Enter film language: english
setLanguage: english
Enter film lead actor: arnold
setLeadActor: arnold
Enter film category: comedy
setCategory: comedy
```

```
krish-thorcode@kkm-ubuntu: ~/My_files/College_related_stuffs/Fall_2018-19/Courses/Advanced JAVA/Lab/challenging_exercises/questions5
SetDuration: 1
Enter the year of release: 2014
setYOR: 2014
Film 3:
-----
Enter film name: Ramu
setName: ramu
Enter film language: english
setLanguage: english
Enter film lead actor: arnold
setLeadActor: arnold
Enter film category: comedy
setCategory: comedy
Enter duration of the film: 2
setDuration: 2
Enter the year of release: 2014
setYOR: 2014
Film name: Krishna
Film language: Tamil
Film actor: Rajini
Film category: Comedy
Film duration: 2
Film yearofRelease: 2012
Film name: Kumar
Film language: Tamil
Film actor: Rajini
Film category: Comedy
Film duration: 1
Film yearofRelease: 2013
Film name: Mahto
Film language: English
Film actor: Arnold
Film category: Comedy
Film duration: 1
Film yearofRelease: 2014
Film name: Ramu
Film language: English
Film actor: Arnold
Film category: Comedy
Film duration: 2
Film yearofRelease: 2014
Shortest Arnold film: Mahto
Film name: Krishna
```

```
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses/Advanced JAVA/Lab/challenging_exercises/question5$ 
  Film category: Comedy
  Film duration: 2
  Film yearOfRelease: 2014
  Shortest Arnold flm: Mahto
  Film name: Krishna
  Film language: Tamil
  Film actor: Rajini
  Film category: Comedy
  Film duration: 2
  Film yearOfRelease: 2012
  Film name: Kumar
  Film language: Tamil
  Film actor: Rajini
  Film category: Comedy
  Film duration: 1
  Film yearOfRelease: 2013
  Film name: Mahto
  Film language: English
  Film actor: Arnold
  Film category: Comedy
  Film duration: 1
  Film yearOfRelease: 2014
  Film name: Ramu
  Film language: English
  Film actor: Arnold
  Film category: Comedy
  Film duration: 2
  Film yearOfRelease: 2014
Enter the actor to get his comedy movies:
arnold
  Film name: Mahto
  Film language: English
  Film actor: Arnold
  Film category: Comedy
  Film duration: 1
  Film yearOfRelease: 2014
  Film name: Ramu
  Film language: English
  Film actor: Arnold
  Film category: Comedy
  Film duration: 2
  Film yearOfRelease: 2014
krish-thorcode@kkm-ubuntu:~/My_files/College_related_stuffs/Fall_2018-19/Courses/Advanced JAVA/Lab/challenging_exercises/question5$
```