**PSEUDOCODE**

**CLASS 1: Main**

**DEF main(String arg[])**

1. INITIALIZE ten Strings (q1,q2,q3,q4,q5,q6,q7,q8,q9,q10)
2. INITIALIZE and ASSIGN value zero for total
3. ASSIGN the values for 10 Strings (q1,q2,q3,q4,q5,q6,q7,q8,q9,q10)
4. CREATE new array of objects of size 10 for CLASS QUESTION by passing question and correct answer as parameter
5. GET the value of ‘total’ by CALL function readFile(questions,total) in CLASS evaluvation
6. CALL the function takeTest() in CLASS test
7. CALL the function writeFile(questions,total+1) in CLASS evaluvation

**CLASS 2: Question**

1. INITIALIZE String ques,ans,diff
2. INITIALIZE anscorrect as int
3. INITIALIZE avg as float
4. **DEF Question(String ques,String ans)**

* SET this.ques=ques
* SET this.ans=ans
* SET diff=”Easy”

1. **DEF update(int a)**
   * SET anscorrect=a
2. **DEF difficulty(int total)**

* Avg=(anscorrect/total)
* IF avg>=0.75

SET diff= “Easy”

* ELSE IF avg>=0.40

SET diff= “Medium”

* ELSE

SET diff= “Hard”

END IF

**CLASS 3: Test**

**DEF takeTest(Question[] questions)**

1. INITIALIZE and ASSIGN value zero for score
2. ASSIGN the input as variable for Scanner Class object
3. INITIALIZE i=0
4. INITIALIZE answer as integer
5. FOR(i<questions.length;iNCREMENT i)

4.1) PRINT questions[i].que

4.2) PRINT questions[i].diff

4.3) GET input from user

4.4) SET answer=input

4.5) IF answer==questions[i].ans

4.5.1) INCREMENT score

4.5.2) INCREMENT questions[i].anscorrect

4.5.3) UPDATE the value of anscorrect

END IF

1. PRINT score

**CLASS 4: Evaluation**

**DEF1 readFile(Question[] q,int total)**

1. INITIALIZE File file=new file(“data.txt”)
2. INITIALIZE Scanner sc=new Scanner(file);
3. SET i=0,k=0;
4. FOR(i=0;i<q.length;INCREMENT I)

* k=sc.nextInt()
* q[i].update(k)

1. SET total=sc.nextInt()
2. RETURN total

**DEF2 readFile(Question[] q,int total)**

1. INITIALIZE FileWriter Writer= new FileWriter(“data.txt”)
2. INITIALIZE i=0
3. FOR (i=0;i<q.length;INCREMTN i)

* writer.write(q[i].anscorrect)

1. writer.write(total)