

Pre-Survey

Welcome to the pre-survey on active learning.

In this survey, you will be asked a number of questions on your background, your interests, and your learning experiences with regard to studying a module in a computer science course. This pre-survey will be complemented by a post-survey that you will be asked to answer at the end of the module.

Please note that taking this survey is voluntary and your answers will be recorded anonymously and will be kept confidential, so don't be afraid to put down what you really think. Take your time to answer.

You will need about 20 minutes to complete the survey.

Thank you for taking this survey.

*** Required**

1. I declare that I have been fully briefed on the nature of this study and my role in it. I understand how the information collected will be used. I fully understand that there is no obligation on me to participate in this study and that I am free to withdraw at any time. I am also entitled to full confidentiality in terms of my participation and personal details. I declare that I am between the ages of 18 and 65. I agree to participate in this survey. *

Mark only one oval.

☐ Agree *Skip to question 2*

☐ Disagree *Skip to section 2 (Thank you and goodbye.)*

Skip to question 12

Thank you and goodbye.

We sincerely thank you and appreciate your time.

Unique
Identifier

In order to keep the survey anonymous please enter the following information, which will be combined into a unique identifier. This way your pre- and post-survey responses can be matched without using your name or other identifying information.

2. The two digits of your birthday month (i.e., enter 01 if you are born in January): *

3. The first three letters in your mother's first name: *

4. The first three letters in your father's first name: *

5. How many older siblings you have: *

Demographics

On this page we ask some questions about you to learn more about your demographic background, i.e., your belonging to particular groups of the population.

6. Please select your gender. *

Mark only one oval.

- ☐ Female
- ☐ Male
- ☐ Non binary
- ☐ Do not want to say

7. Please select your ethnicity/race.

Mark only one oval.

- ☐ White / Caucasian
- ☐ Hispanic or Latino
- ☐ Black or African American
- ☐ Native American or American Indian
- ☐ Asian / Pacific Islander
- ☐ Multiracial
- ☐ Other:

8. How old are you (in years)? *

Mark only one oval.

☐ less than 20

☐ 20-25

☐ 25-35

☐ over 35

9. Which of the following statements best describes where you live? *

Mark only one oval.

☐ I live at home.

☐ I live in a student residence.

☐ I live away from home, but not in a residence.

☐ Other: _____

Education and Experiences

We would like to know a little about your education, your interests, and your experiences.

10. What were your favourite subjects at school? (Tick all that apply.) *

Check all that apply.

- ☐ English
- ☐ Irish
- ☐ Maths
- ☐ History
- ☐ Geography
- ☐ Physics
- ☐ Chemistry
- ☐ Biology
- ☐ Economics
- ☐ Foreign Language
- ☐ Art
- ☐ Music
- ☐ Computers

Other: ☐ _____

11. At your previous school/work, was it common to work in groups, or did you mostly work alone? *

Mark only one oval.

- ☐ we did a lot of group work
- ☐ we did a bit of group work, but most of the time everyone worked for himself/herself
- ☐ we did no group work, and everyone just worked for himself/herself
- ☐ Other: _____

Attitudes

In this section, we ask you a number of questions regarding your attitude towards different aspects of learning. There are no right or wrong answers. Do not be afraid to put down what you really think.

12. Please indicate to what extent you agree or disagree with the following statements. I know I understand when ... *

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
I can work problems in the book	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can apply ideas to new situations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I get a good grade on the final exam	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can explain the ideas to someone else.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can see how concepts relate to one another	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. Please indicate to what extent you agree or disagree with the following statements. *

Mark only one oval per row.

	very often	often	sometimes	never
I ask questions in class or contribute to class discussions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I discuss ideas/concepts with other students during class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can speak clearly and effectively.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am confident to develop my own ideas on a subject I am being taught on.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel confident in speaking up about my ideas during class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel confident to ask questions in class.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. Please indicate to what extent you agree or disagree with the following statements. I know I learn well by ... *

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
Doing assignments on my own	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using diagrams and other visual media	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reading a textbook	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Studying with friend/s	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Getting good tutorials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Doing hands-on activities	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Listening to lectures	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Reading and re-reading materials	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Discussing with others in class	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. Please indicate to what extent you agree or disagree with the following statements. *

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
I love maths.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I love solving problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I love taking things apart to see how they work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Theoretical and abstract problems are interesting.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computers are fun.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming is hard.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer jobs are boring.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am good at computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I like computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know more than my friends about computers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can become good at computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I want to find out more about computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am interested in a career in computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I think computer science is useful.

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16. Please indicate to what extent you agree or disagree to the following statements on the usefulness of computer science. *

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
I'll need programming for my future work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Knowing programming will help me earn a living.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Computer science is a worthwhile and necessary subject.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'll need a firm mastery of programming for my future work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I will use programming in many ways throughout my life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming is of no relevance to my life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming will not be important to me in my life's work.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I see computer science as a subject I will rarely use in my daily life.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Taking computer science courses is a waste of time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
In terms of my adult life it is not important for me to do well in computer science in college.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I expect to have little
use for programming
when I get out of
college.

☐☐☐☐☐☐

17. Please indicate to what extent you agree or disagree with the following statements on your motivation in computer science. *

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
I like writing computer programs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Programming is enjoyable and stimulating to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When a programming problem arises that I can't immediately solve, I stick with it until I have the solution.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Once I start trying to work on a program, I find it hard to stop.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When a question is left unanswered in a computer science class, I continue to think about it afterwards.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am challenged by programming problems I can't understand immediately.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Figuring out programming problems does not appeal to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The challenge of programming problems does not appeal to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Programming is boring.

I don't understand how some people can spend so much time on writing computer programs and seem to enjoy it.

I would rather have someone give me the solution to a difficult programming problem than to have to work it out for myself.

I do as little work in computer science courses as possible.

18. Please indicate to what extent you agree or disagree with the following statements on your confidence in learning computer science and programming.

*

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
Generally I have felt secure about attempting computer programming problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am sure I could do advanced work in computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am sure that I can learn programming.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think I could handle difficult programming problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can get good grades in computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I have a lot of self-confidence when it comes to programming.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm no good at programming.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I don't think I could do advanced computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I'm not the type to do well in computer programming.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
For some reason even though I work hard at it, programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

seems unusually hard
for me.

Most subjects I can
handle O.K., but I have
a knack for flubbing up
programming
problems.

☐

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Computer science has
been/expect it to be
my worst subject.

☐

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19. Please indicate to what extent you agree or disagree with the following statements on men and women in computer science. *

Mark only one oval per row.

	strongly agree	agree	in between	disagree	strongly disagree	don't know / does not apply
Females are as good as males at programming.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Studying computer science is just as natural for women as for men.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would trust a woman same as a man to figure out important programming problems.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Women certainly are logical enough to do well in computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It's hard to believe a female could be a genius in computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It makes sense that there are more men than women in computer science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would have more faith in the answer for a programming problem solved by a man than a woman.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Women who enjoy studying computer science are a bit peculiar.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Learning Style / Part One

In this section, we ask you a number of questions regarding your learning style. For each question indicate how often it applies to you. Please respond to all questions. Since this questionnaire is anonymous we cannot connect your result to your name, but if you would like some insight on your own learning style, you can write down the points you get in each of the parts of the Learning Style questionnaire and interpret the results based on the key that will be made available to all the students.

20. Please indicate to what extent the following statements apply to you. *

Mark only one oval per row.

	Never applies to me.	Sometimes applies to me.	Often applies to me.
I enjoy doodling and even my notes have lots of pictures and arrows in them.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I remember something better if I write it down.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I get lost or delayed if someone tells me how to get to a new place, and I don't write down the directions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When trying to remember someone's telephone number, or some new information like that, it helps me to get a picture of it in my mind.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If I am taking a test, I can "see" the textbook page and where the answer is located.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It helps me to look at the person while listening; it keeps me focused.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using flashcards helps me to retain material for tests.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It's hard for me to understand what a person is saying when there are people talking or music playing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It's hard for me to understand a joke when someone tells me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It is better for me to get work done in a quiet place.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. Note down for yourself the points you got in Learning Style/Part One

Learning Style / Part Two

In this section, we ask you a number of questions regarding your learning style. For each question indicate how often it applies to you. Please respond to all questions. Since this questionnaire is anonymous we cannot connect your result to your name, but if you would like some insight on your own learning style, you can write down the points you get in each of the parts of the Learning Style questionnaire and interpret the results based on the key that will be made available to all the students.

22. Please indicate to what extent the following statements apply to you. *

Mark only one oval per row.

	Never applies to me.	Sometimes applies to me.	Often applies to me.
My written work doesn't look neat to me. My papers have crossed-out words and erasures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It helps to use my finger as a pointer when reading to keep my place.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Papers with very small print, blotchy dittos or poor copies are tough on me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I understand how to do something if someone tells me, rather than having to read the same thing to myself.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I remember things that I hear, rather than things that I see or read.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Writing is tiring. I press down too hard with my pen or pencil.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My eyes get tired fast, even though the eye doctor says that my eyes are ok.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When I read, I mix up words that look alike, such as "them" and "then," "bad" and "dad."	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It's hard for me to read other people's handwriting.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If I had the choice to learn new information through a lecture or textbook, I would choose to hear it rather than read it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. Note down for yourself the points you got in Learning Style/Part Two

Learning Style / Part Three

In this section, we ask you a number of questions regarding your learning style. For each question indicate how often it applies to you. Please respond to all questions. Since this questionnaire is anonymous we cannot connect your result to your name, but if you would like some insight on your own learning style, you can write down the points you get in each of the parts of the Learning Style questionnaire and interpret the results based on the key that will be made available to all the students.

24. Please indicate to what extent the following statements apply to you. *

Mark only one oval per row.

	Never applies to me.	Sometimes applies to me.	Often applies to me.
I don't like to read directions; I'd rather just start doing.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learn best when I am shown how to do something, and I have the opportunity to do it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Studying at a desk is not for me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I tend to solve problems through a more trial-and-error approach, rather than from a step-by-step method.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Before I follow directions, it helps me to see someone else do it first.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I find myself needing frequent breaks while studying.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am not skilled at giving verbal explanations or directions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I do not get easily lost, even in strange surroundings.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think better when I have the freedom to move around.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
When I can't think of a specific word, I'll use my hands a lot and call something a "what-cha-ma-call-it" or a "thing-a-ma-jig."	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

25. Note down for yourself the points you got in Learning Style/Part Three

Thank
you!

This concludes the pre-survey. At the end of the module you will be asked to complete the post-survey.

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