Input: Java || Output: Python

Evaluation Item	Unacceptable	Marginal	Proficient	Comments
Presentation - Thinking/Inquiry/ Analysis - Innovative Feature (Scored 0-2/[3-4])	The presentation did not convey the project's goals or results. The presentation was not appropriate for the audience. The speaker failed to convey the project's goals and results effectively. Delivery was disorganized/not concise. The innovative feature was omitted from the presentation.	The presentation slightly mistargeted the audience or had trouble with time. The speaker conveyed the project's goals and results. The speaker did not clearly convey the project's goals and results effectively. The delivery could have been more organized/concise. The innovative feature was mentioned but not clearly explained or demonstrated.	The presentation was targeted at an appropriate (technical) audience and was an appropriate length. The speaker conveyed the project's goals and results effectively. Delivery was organized and concise. The innovative feature was clearly explained and demonstrated (where appropriate).	• Some backend details and challenges provide. Mainly focused on features supported by the compiler. • Appreciate the details provided during the optimization section. • Not really sure what the motivation behind the project was. • No innovative/impressive feature showcased which stood out. Mark: 2.5/4
Impact - Delivery (Scored 0-2)	The presentation failed to spark interest in many members of the audience.	The presentation made the audience interested about the project and introduced an aspect of the project that was interesting.	The presentation made the audience excited about the project and conveyed a clear sense of its value or potential.	• The presentation itself was fairly well organized, but the pacing and transition between sections made parts of the delivery feel a bit rushed and therefore hard to grasp. Mark: 1/2
Visual Aids (Scored 0-2)	Few visual aids were selected or they were inappropriate for supporting the demo.	The selected visual aids were insufficient, too numerous (took over the demo), or inappropriately utilized.	The presenter selected and utilized visual aids appropriately to support their presentation.	• A flowchart was used when describing Compiler Components but the diagram was cut-off and not fully visible.

	There were many errors and/or issues with the visual aids.	There were some errors and/or issues with the visual aids.	There were no errors/issues with the visual aids.	• Showing comparison between input code and output code is nice but the font is too small and there is too much information in a single slide. • Inconsistent code block. Mark: 1/2
Q & A (Scored 0-1)	The speaker failed to demonstrate sufficient knowledge in the area of their compiler project with respect to the questions asked.	The speaker demonstrated partial understanding of their compiler project in answering questions.	The speaker demonstrated a solid understanding of their compiler project in answering questions.	• Yicheng handled questions fairly well, except for the question about why the output included "void" instead of "none". • There weren't many questions, but Jinhan also handled questions nicely when asked about the demo. Mark: 1/1
Feedback (Scored 0-1)	The student failed to provide complete feedback for all of their peer's presentations.	The student failed to provide complete feedback for some of their peer's presentations.	The student was able to provide useful feedback for all of their peer's presentations.	Jinhan: 0/1 Yicheng: 1/1

Additional Notes:

General:

- The slides weren't full screen which led to many of the graphics/illustrations (e.g., graphs) and some content being cut-off.
- The transition from Compiler Components to Design & DIfficulty was a bit abrupt, along with the transition from the code demo to the OOP slide.
- We appreciate how both members of the group contributed fairly equally to the presentation (e.g. both members did a demo), and we enjoyed how you spoke about "usability" with respect to ArrayLists and instantiating an object.
- The compiler tokenizes the comments which is really neat. Inline comments can't occur.

BAO JINHAN (1004467052)

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XU YICHENG (1004749944)

- The pacing was a bit too fast, making it hard for the audience to fully grasp what was being discussed.

Question:

- During the demo of the array, what exactly does the heavy text output mean/represent?
- How did you handle going from strongly typed to weakly typed?
- What optimization techniques have you employed?

Group Members:

1004467052	BAO	JINHAN	jinhan.bao@mail.utoronto.ca	baojinha	**Score: 5.5/10**
1004749944	XU	YICHENG	yicheng.xu@mail.utoronto.ca	xuyiche6	**Score: 6.5/10**

Student Feedback

Average Score: 4.05/5.0

What they liked?

The example input code and target code output was very big and demonstrated the compilers capabilities very well.
I think the motivation is good and clear. I like the motivation.
Their presentation is generally good. They show that how compiler works in the terminal
There was a live demo and the presenters were explaining everything clear. There were also good amount of examples to show what the compiler does. There was also a demo of the optimizations that was done, which was nice.
I liked that OOP is implemented
Great to have a small overview to describe what the presentation will cover. Nice set of features that is supported. Great pictures of examples shown throughout the presentation discussing every features implemented. Nice to see a demo as well. Great optimization techniques.
I liked the live demo, and that the whole presentation was live.
Good explanation of the motivation for the compiler, drew comparisons between Java and Python.
I like the idea of tokenizing. It was a cool feature.
Good screenshots that demonstrates project.
Great presentation. I liked the slides and the examples.
Really liked the idea behind the compiler. Also liked the demo and examples.
I liked how the group picked to go from a language people learn later (Java) to a language they learn first (Python), instead of the other way around like we've seen so far. I also liked how comments were handled in the compiler, very interesting!
I really enjoyed the presentation! the group members were all very clear in their understanding and presentation of individual parts, also our group also had

Java as a source code which was very cool to see what you guys did

Presentation was fine, the presenters were thorough with explaining how their code works, it was a nice change from all the Python to C compiliers as well since they focused more on OOP.

I like their array handling, the slides were concise and they had a good explanation of their compiler

Presentation was well-organized, talking points were clear, flow was good. Showing error handling is good.

The comment translation from Java to python is cool.

I like that they did it live. They also covered everything needed for this project

Goes through all them very nicely

Showing the input and output explicitly was nice.

I like how readable the transpiled code is.

I like the inspiration for the project as java and python are really popular and would be useful.

Interesting they converted comments, also good show of everything working.

Their type checking is pretty neat!

I enjoyed seeing their optimizations such as loop fusion and dead code elimination optimizations. The detailed comparison between source and target was extremely helpful for viewers to understand. It was also cool to see that they tokenized comments and converted them from Java comments to python, a neat feature that other groups did not have :D

Liked how they went over the difficulties of designing their compiler. Not all groups did that! Both group members participated.

great idea, and nice execution

Loved the use of explanations they had for their .

Lot of code samples, very informative, had live code demo

This group did a good job on showing their source and target code comparison. Audience can get a clear image on what the compiler is doing.

Explained each part of their compiler, I liked how the demos were split up over the presentation so they were demonstrating what was currently being presented in the slides

Nice presentation overall and really complete compiler with many features.

I like their use of the languages Java and Python, and how they handle the conversion of certain features such as arrays into lists and especially the conversion of comments.

I liked how they covered the background -- both Java and Python being intro languages.

I liked the java to python compiler. Its a new translation not seen yet. I like their target code generated

It seemed well practiced.

I like that their compiler covers oop. I also liked how they explained their loop fusion and dead code elimination. I think they did a great job in showing off there compiler, I thought it was very impressive.

The explanation of your compiler optimizations were easy to understand.

What they didn't like?

Spent a little bit too long talking about IR.

there are some accent in the presentation which can be improved.

Their demo is insufficiency, should show more examples in code, different files. Their slides might improve, it doesn't contain less information

Nothing.

Lack of motivation for creating this particular compiler

It would have nice to have smaller snippets of code added as a screenshot, this can be too much to read. It would have been nice to have 1 big demo, instead of mini-demo going throughout. This is a little too distracting

Some code snippets felt hard to read.

Slide show was not full-screened. The compiler visualization in slide 3 was cut off. Some slides cut off on the bottom (data types, array, etc.). First screen share was blurry.
Nothing. It was good.
Not much to dislike to be honest
There wasn't really much to dislike about the presentation.
Nothing really.
I didn't dislike anything in particular for this presentation.
I think the presenters were very well paced in their presentation and so there was not need for too much text on the screen. Instead, maybe you could replace with some cool images or diagrams, also some of the diagram were cut off, definitely something to watch out for. Also try not to put large code screenshots on the screen, no one has enough time to read through it all, instead put small code bits.
It was ok, nothing really to dislike
I would've liked to see more in the demo
The output code does not appears to be valid python for all cases. Did not demo a working version of the code, where we actually run the output in python.
Nope
Their presentation and project is kind of generic.
N/A
Nothing exactly stood out to me as bad from the presentation.
The slides could have a bit less text.
Theres nothing i dont like.
some example code was hard to read.
It was a bit hard to follow

I did not dislike any elements of this presentation!
Perhaps some more visuals on the slides.
the presentation was fine, nothing that I disliked
Had some errors in their live demo, (parse error).
Could have had more diagrams and visual aids
For the optimization part, it lacks the performance details. That is, how much performance improved by the optimization techniques they used.
Was all business, maybe include some jokes to relax you/the audience
Nothing really
N/A
Felt monotonous, could have more pictures.
Not much
The pacing was a little different for each member.
There was nothing I disliked.
The flow of the presentation was a little jarring.

What could be improved?

Maybe could have used some smaller input code aswell as the large input code so certain features could be demonstrated with better focus.
improve the accent if that is possible

Improve the slides,
Work on more testcase and show them in their demo

Nothing.

More engagement and goals

Maybe focus presenting on the theory portion, followed by the demo. Instead of changing between applications throughout the presentation.

Perhaps speaking a bit slower, but that's a minor complaint and it was a good presentation overall!

Polish up slide show and screenshare.

Nothing to improver.

More slides with regular information to help keep up with information

I would suggest dividing the work a bit. It seemed like only one group member spoke most of the time

I think the presentation was great!!!

I think what the group could have done to improve their performance is add more visuals to their slides to help support their more abstract explanations, such as design.

Great work!

In the presentation, watch for the alignment of words. Often I noticed headings and titles were off center which can be often off putting, so definitely check that out always with any presentation!

I think they were a little nervous when presenting, I think a bit more practice would be better, otherwise they did fine.

I think a bit more complicated demo would've been nice to see

Perhaps go more detail into technical sides: talk about some design decisions and limitations of the current approach.

There were a few pauses in the talk. Fix this can improve the quality of their presentation.
Transition from code to slides are not smooth.

I feel that their presentation would have been more interesting if they had a more unique feature.

I think full sizing their window so that we can see it clearly.

I think the presentation as a whole was pretty good, just not exactly one that stood out. Still, it was overall pretty good.

Some more complicated examples would be great.

To improve the performance there could be less cuts while switching screen such as sharing the entire monitor and switching the screen.

There presentation could have been more polished. with better/more terse examples.

Providing more visuals, would help!

Perhaps they can address the output of their demo within their presentation itself such as the error that Prof. Liut pointed out

Add more visuals (diagrams and stuff), and less words.

a few more complex examples in the code and running the output code would be cool

Make sure their examples worked before they did the demo.

More diagrams and visual aids

They can add performance comparison to show the optimization.

Include some humour

Nothing

N/A

More enthusiasm and pictures :)

The presentation communication can be improved to be more clear and concise

Could improve pacing

I think one of the slides might have been cut off on the right side where there was a diagram because the window was minimized.
You could have had everything that you wanted to show for the demo on one screen so that you didn't have to constantly switch screens.