# Declaration of Academic Integrity

Academic Integrity is a central tenet of Singapore Polytechnic. The polytechnic rules state that "Cheating in examinations and other assessed work is a very serious offence. This includes copying and using plagiarised material. Any student who cheats, attempts to cheat or breaches any rules for examinations and tests will face disciplinary action. The student is liable to be expelled."

Check **only one** of the two options below:

I affirm that the work I submit is my own, produced without help from any AI tool(s) and/or other source(s).

I affirm that the work I submit has been produced with the use of AI tool(s) and/or other source(s) which I have acknowledged fully in the [following section](#_Acknowledgement_of_use).

By signing this form, I declare that the above affirmation made is true, and that I have read and understood the rules stated in Students Handbook on “[Plagiarism](https://www.sp.edu.sg/sp/student-services/osc-overview/student-handbook/intellectual-property-copyright-and-plagiarism)” and “[Breach of Examination/Assessment Rules](https://www.sp.edu.sg/sp/student-services/osc-overview/student-handbook/conduct-in-examinations-breach-of-exam-rules)”.

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| Name:  Randhir Prem | Student ID:  8125291j | Class:  Class A |
| Signature:  Randhir Prem | Date:  29/6/2024 | |

## Acknowledgement of use of AI tool(s) and/or other source(s) (where applicable)

### AI tool(s)

|  |  |
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| **Name of AI tool** | *ChatGPT* |
| **Input prompt** | < *Insert the question that you asked ChatGPT* > |
| **Date generated** | < *13 June 2024* > |
| **Output generated** | *import numpy as np*  *import matplotlib.pyplot as plt*  *# Example data*  *data = {*  *'Category 1': np.random.normal(0, 1, 100),*  *'Category 2': np.random.normal(1, 2, 100),*  *'Category 3': np.random.normal(2, 1.5, 100)*  *}*  *# Extract data for plotting*  *categories = list(data.keys())*  *data\_values = [data[cat] for cat in categories]*  *# Create the boxplot*  *fig, ax = plt.subplots()*  *ax.boxplot(data\_values, patch\_artist=True)*  *# Add median values to the plot*  *for i in range(len(data\_values)):*  *median = np.median(data\_values[i])*  *ax.plot(i + 1, median, 'ro') # 'ro' means red color with a circle marker*  *# Customize the plot*  *ax.set\_xticklabels(categories)*  *ax.set\_title('Boxplot with Median Values')*  *ax.set\_xlabel('Categories')*  *ax.set\_ylabel('Values')*  *# Show the plot*  *plt.show()* |
| **Impact on submission** | < *The Boxplot section to get the medians based on a set of categories*> |

### Other source(s)

|  |  |
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| **Source** | **Impact on submission** |
| < *Link to online source* > | < *Briefly explain which part of your submitted work the online source was applied* > |
| < *Author, Book / Article / Journal, Year, Pages* > | < *Briefly explain which part of your submitted work the Book / Article / Journal was applied* > |
| < *Student / Person name* > | < *Briefly explain which part of your submitted work the help of another student / person was applied* > |
| < *Others* > | < *Briefly explain which part of your submitted work the source was applied* > |