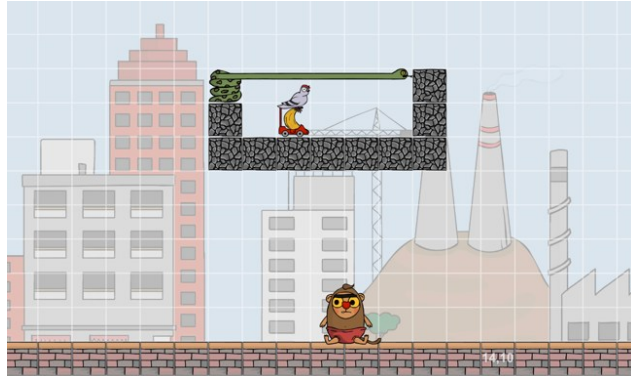
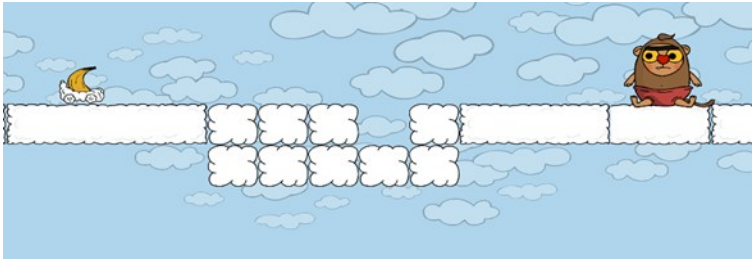


SECTION A [30 Marks] Answer all questions Use OMR sheet for Question I ONLY	
Question I	[30]
1. You want to create a clickable link on Slide 2 that takes you directly to Slide 6 during your presentation. Which hyperlink option should you use?	
A Email Address B Create New Document C Place in this Document D Existing File or Webpage	
2. Study the code below. Which statement is true about its behaviour? Identify the function used to accept input from the user.	
A Input() B Print() C print() D input()	
3. At which stage of the video-making process is video editing software commonly used?	
A Post-Production B Pre-Production C Production D Distribution	
4. How does an AI system identify an apple, an orange, and a banana based on their physical features?	
A By reading the fruit price. B By using a barcode on each fruit. C By randomly guessing which fruit it is. D By analysing their colour, shape, and size.	
5. Your teacher noticed that you write good articles and encouraged you to start blogging. What is the best way to do this?	
A Record a video reading your article. B Make a digital poster with pictures and texts. C Write articles and upload them to a blogging site. D Write articles in Microsoft Word or PowerPoint and save it.	
6. Your friend has shared an opinion that you do not agree with. What would be the best way to comment on that post?	
A Share your opinion with kind words. B Tell others to argue with your friend. C Post something unrelated to distract others. D Write negative comments to show your views.	
7. What will be the output if the user enters Tashi for the following code?	

	<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td>name=input("Enter your name:")</td></tr><tr><td>2</td><td>print("Hello, " +name+ " !")</td></tr></table>	Line	Code	1	name=input("Enter your name:")	2	print("Hello, " +name+ " !")	
Line	Code							
1	name=input("Enter your name:")							
2	print("Hello, " +name+ " !")							
	A Hello Tashi! B Hello, Tashi! C Hello+ Tashi! D Hello+ name!							
8.	Which option best shows how to protect your digital footprint while using websites?							
	A Use strong passwords and avoid clicking on unknown links. B Only browse websites that look colourful and fun. C Share your passwords only with friends you trust. D Turn off your device frequently to stay safe.							
9.	Which statement correctly explains how generative AI creates a story?							
	A A It copies an entire story from a book. B It searches the Internet to find a story for you. C It chooses an existing story from the online sources. D It creates a new story using what it has learned from many stories.							
10.	Study the given figure and choose the correct line of code to release the pigeon.							
								
	A length.snake = 2 B snake.length = 2 C length.snake = 3 D snake.length = 3							
11.	When creating a presentation, Sonam wants to add a visual effect between slides to make it more engaging. Which feature should she use?							
	A Animation B Slide layout C Font style D Transition							
12.	Tashi wants to access government services online in Bhutan without entering his Citizen Identity Card(CID) details. Which digital service should he use?							

	A DrukPay B Bhutan Mail C NDI (National Digital Identity) D eLibrary	
13.	Pema regularly shares helpful and respectful posts online. What does this behaviour help build?	
	A Online gaming skills B Negative reputation C Positive online identity D Internet speed	
14.	A student is learning to write methods in a Python class. What is always the first parameter of any method in a class?	
	A <code>init</code> B <code>class</code> C <code>self</code> D <code>object</code>	
15.	Dorji is designing an AI system and wants to ensure it is fair and respectful in real-world use. What guidelines should he follow?	
	A Coding standards B AI Ethics C Debugging rules D Hardware protocols	
16.	A student adds an audio recording of a story to a presentation slide. What is the main purpose of adding the audio?	
	A To increase the file size B To convey information through sound C To change the slide design D To hide text on the slide	
17.	The diagram shows a rectangular grid of clouds. Which Python expression should be used to create a new cloud in the empty space?	
		
	A <code>clouds[0][3]</code> B <code>cloud[0][3]</code> C <code>clouds[0][3] = Cloud()</code> D <code>cloud[0][3] = Cloud()</code>	
18.	Which Python statement assigns the value 10 to both x and y?	

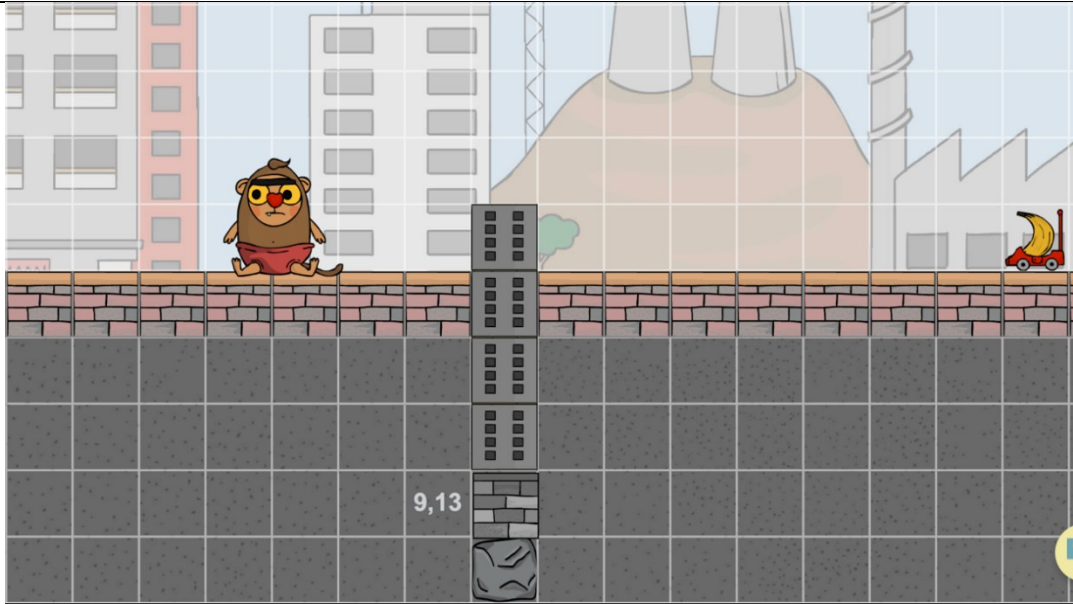
	A $x, y = 10$ B $x = y = 10$ C $x = 10, y = 10$ D $x + y = 10$					
19.	A student needs to remove unwanted footage from a video project. Which editing option should be used?					
	A Trimming B Cropping C Splitting D Transitioning					
20.	Maya uses AI to create an image of a friend and makes the friend appear to be doing something they never did. What type of image is this?					
	A AI- generated image B Edited photograph C Digital drawing D Deepfake image					
21.	You regularly write and publish post on a personal blog. What benefit can this have?					
	A Improve you writing skills B Earn money from every post C Become famous through every post D Gain more followers on social media					
22.	You find an old inappropriate post on your social media account. What should you do to reduce its negative impact?					
	A Ignore the post B Delete or remove the post C Post a new message to support the post D Change privacy setting to “Friends of Friends”					
23.	The program currently stores two subjects in a Python set:					
	<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td><code>subjects = {"Math", "ICT"}</code></td></tr></table>	Line	Code	1	<code>subjects = {"Math", "ICT"}</code>	
Line	Code					
1	<code>subjects = {"Math", "ICT"}</code>					
	Which line of code will add the subject science to the set?					
	A <code>subjects("Science")</code> B <code>subjects[2] = "Science"</code> C <code>subjects.add("Science")</code> D <code>subjects.append("Science")</code>					
24.	During an online discussion, a participant begins posting aggressive and insulting comments directed at you. What is the most appropriate way to handle this situation?					
	A Respond with similar comments B AI Ethics Report it to the moderator C Save the comment to use against the person later D Create a post to write about the person’s actions					

25.	You wrote a prompt for an AI tool: "Give me 3 reasons why dogs chase squirrels." The AI responds with a long story of dog and squirrels instead of the reason. What should you do to fix this?					
	A Re-enter the same prompt B Try a completely different AI tool C "List 3 bulleted reasons why do chase squirrels" D Change the prompt to: "Why do dogs chase squirrels"					
26.	Every time Thinley presents the slides, they automatically move to the next one after few seconds, even while Thinley is still talking. How can this be fixed?					
	A Uncheck "After" and select "On Mouse Click" B Switch from "On Mouse Click" to "After 5 seconds" C Remove all the text box animations D Use faster transition effects					
27.	A parent approaches you after their child's birth to register the newborn in the census through the G2C portal. Which G2C services should the parent use?					
	A Education and Learning B Health and Wellness C Cultural Affairs D Family					
28.	In the context of artificial intelligence, what does the term "hallucination" refer to?					
	A A security breach that alters AI training data B A confident but factually incorrect AI response C When AI simulates human emotions D AI learning from its own mistakes					
29.	Given $x = 10$ and $y = 20$, what will be the values of x and y after the following statement is executed?					
	<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td>$x, y = y, x$</td></tr></table>	Line	Code	1	$x, y = y, x$	
Line	Code					
1	$x, y = y, x$					
	A $x = 10, y = 20$ B $x = 20, y = 10$ C $x = 20, y = 20$ D $x = 10, y = 10$					
30.	A teacher is preparing data for an AI system. What does it mean to label the dataset?					
	A Remove unused data B Check if data is useful C Print and scan the data D Give data a text or numeric label					
SECTION B [50 Marks] Attempt all questions						
Question II						
1.	Your teacher has asked you to use Google Slides instead of PowerPoint for a group presentation. Give TWO reasons that support your teacher's suggestion.	[2]				

2. Which platform would you use to share video online to reach a large audience? Why?	[2]										
3. Using a for loop, rewrite the given code so that it performs the same task?	[2]										
<table border="1"> <thead> <tr> <th>Line</th><th>Code</th></tr> </thead> <tbody> <tr> <td>1</td><td><code>clouds[3][0]=None</code></td></tr> <tr> <td>2</td><td><code>clouds[3][1]=None</code></td></tr> <tr> <td>3</td><td><code>clouds[3][2]=None</code></td></tr> <tr> <td>4</td><td><code>clouds[3][3]=None</code></td></tr> </tbody> </table>	Line	Code	1	<code>clouds[3][0]=None</code>	2	<code>clouds[3][1]=None</code>	3	<code>clouds[3][2]=None</code>	4	<code>clouds[3][3]=None</code>	
Line	Code										
1	<code>clouds[3][0]=None</code>										
2	<code>clouds[3][1]=None</code>										
3	<code>clouds[3][2]=None</code>										
4	<code>clouds[3][3]=None</code>										
4. How does the way you write a prompt affect the answers you receive from a language model like ChatGPT?	[2]										
5. Both codes given below take input from the user. How is the value stored in height different in Code A compared to Code B?	[2]										

Code A	height=input("Enter the giraffe's height:")	
Code B	height=int(input("Enter the giraffe's height:"))	
Question III		
1.	How does good lighting help you make a better and interesting video clip?	[2]
2.	Explain TWO ways to raise awareness about G2C services in your community?	[2]
3.	You are given two options to convey a message about online safety through a poster. Option A: "Share everything online, it does not matter what you share." Option B: "Think before you share, protect your digital self."	[2]
Which option is the better choice? Give TWO reasons to support your answer		

4. Create two variables named number1 and number2 to store values 7 and 8. Write a Python program to add these two numbers and print the result.	[2]
5. The What is reinforcement learning in AI? Give ONE example:	[2]
Question IV	
1. You want to send a video from your phone to a computer for editing. Name ONE method you could use to transfer the video.	[1]
2. Study the figure and the lines of code given below to answer the following questions.	



Line	Code
1	class Drill:
2	def __init__(self):
3	self.x = 9
4	self.y = 13
5	def drill_right(self):
6	self.x = self.x + 2
7	drill_1 = Drill()
8	drill_1.drill_right()

a. Is it necessary to use the class name `Drill` to create an object? Why?

[2]

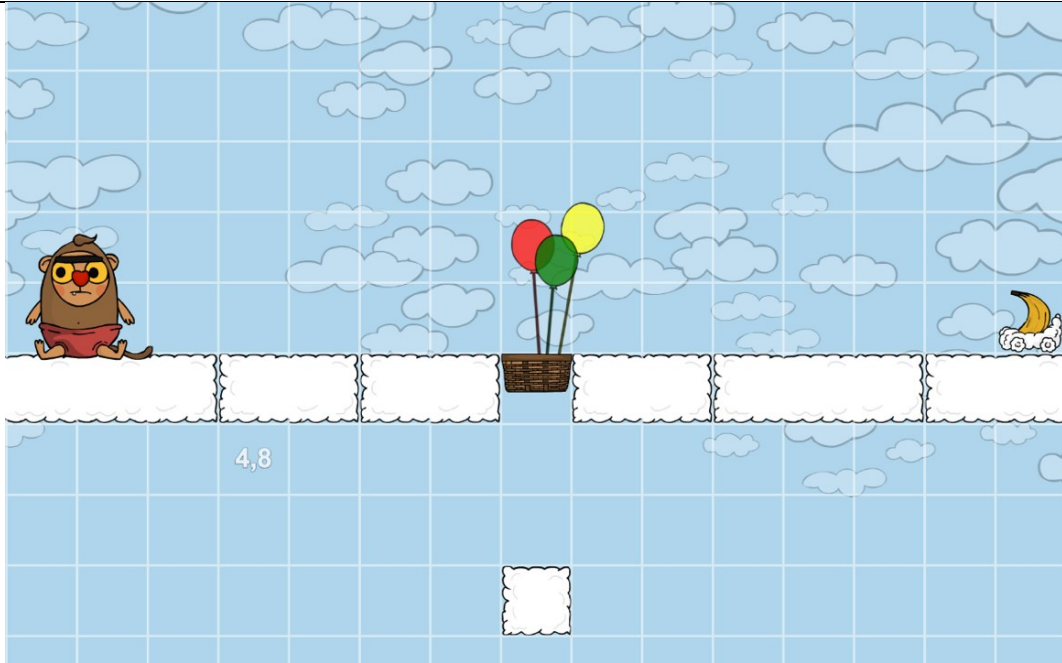
b. Write the value of x after the `drill_right()` method is called.

[1]

3. Identify the errors and rewrite the correct lines of code.								
a.		[1]						
<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td>odd_numbers = {1,3,5,7,9}</td></tr><tr><td>2</td><td>print(odd)</td></tr></table>	Line	Code	1	odd_numbers = {1,3,5,7,9}	2	print(odd)		
Line	Code							
1	odd_numbers = {1,3,5,7,9}							
2	print(odd)							
b.		[1]						
<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td>student_info=["name": "Karma", "grade": "VIII"]</td></tr><tr><td>2</td><td>print(student_info)</td></tr></table>	Line	Code	1	student_info=["name": "Karma", "grade": "VIII"]	2	print(student_info)		
Line	Code							
1	student_info=["name": "Karma", "grade": "VIII"]							
2	print(student_info)							
Question V								
1. How is AI's method of creating images different from that of human artists?		[2]						

Line	Code
1	<code>basket.balloon_colors.add("blue")</code>
2	<code># The balloon_colors is a set.</code>
3	<code>basket.balloon_colors.add("yellow")</code>
4	<code>basket.balloon_colors.add("yellow")</code>
5	<code>basket.balloon_colors.add("red")</code>
6	<code>basket.balloon_colors.add("green")</code>
7	<code>basket.balloon_colors.pop()</code>

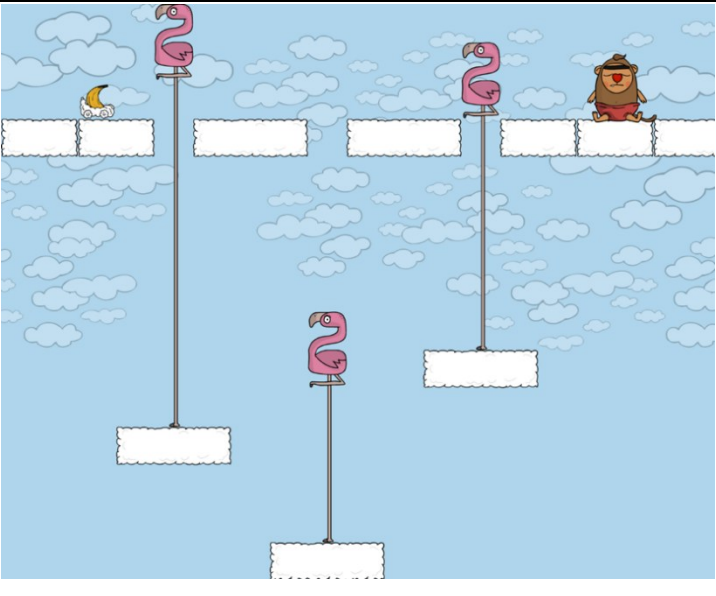
2. Refer to the lines of code and the figure given below to answer the following questions.



a.	Why does only one yellow balloon appear in the basket even though the colour yellow is added twice?	[1]

b.	How is the pop() method different from the add() method?	[1]						
c.	How is the code in line 2 different from rest of the code, and how does it affect the program?	[2]						
Question VI								
1.	The following code contains an error in line 3.	[2]						
<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td rowspan="3">password = "xyz" gate_index = 2 print(password "is password of gate"+ gate_index)</td></tr><tr><td>2</td></tr><tr><td>3</td></tr></table>		Line	Code	1	password = "xyz" gate_index = 2 print(password "is password of gate"+ gate_index)	2	3	
Line	Code							
1	password = "xyz" gate_index = 2 print(password "is password of gate"+ gate_index)							
2								
3								
Rewrite line 3 correctly using type casting and explain how type casting fixes the error.								
2.	Refer to the lines of code given below and answer the following questions.							
<table><tr><th>Line</th><th>Code</th></tr><tr><td>1</td><td rowspan="2">new_colors =('red','blue','green','purple','yellow') print(new_colors)</td></tr><tr><td>2</td></tr></table>		Line	Code	1	new_colors =('red','blue','green','purple','yellow') print(new_colors)	2		
Line	Code							
1	new_colors =('red','blue','green','purple','yellow') print(new_colors)							
2								
a.	What will be the output of the code?	[1]						

b. What will happen if quotation marks are removed from the values in line 1? Why quotation marks are necessary?	[2]
3. Explain why it is important to be careful when viewing images that might be deepfakes?	[1]
Question VII	
1. Karma wants to share stories online but is unsure whether to create a blog or a vlog. Which one would you recommend? Why?	[2]

2. Study the figure given below and answer the following questions.	
	
a. Write the code to arrange flamingos in correct order so that banana reaches the baby monkey.	[2]
b. Write code to create a Python list containing the names 'flamingo_1', 'flamingo_2', and 'flamingo_3'. Then print 'flamingo_2' from the list.	[2]
QUESTION VIII	
Read the algorithm below, which checks whether a student has passed or failed based on their marks.	

Step	Algorithm	
1	START	
2	Enter the mark	
3	Check if mark is greater or equal to 40	
4	Display 'Pass'	
5	Otherwise, display 'fail'	
6	STOP/END	
1. Draw a flowchart based on the above algorithm.		[3]

2. Write Python code for the above algorithm.	[3]