Homework 1

Task 1 .

The partial program below creates a list of today’s tasks.

|  |  |
| --- | --- |
| 1  2 | tasks = ["Maths homework", "English homework",  "Practise music", "Tidy up room"] |

**Question 1:** What would the program output be if the lines below were added to it?

|  |  |
| --- | --- |
| 3  4 | task = tasks[1]  print(task) |

|  |  |
| --- | --- |
| **Answer** |  |

**Question 2:** Fill in the gap, so that the output of the program is Practise music.

|  |  |
| --- | --- |
| 3  4  5 | index = .  task = tasks[index]  print(task) |

**Question 3:** What would the program output be if the lines below were added to it?

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| --- | --- |
| 3  4  5  6 | if len(tasks) > 4:  print("Busy day")  else:  print("Not that bad") |

|  |  |  |  |
| --- | --- | --- | --- |
| * 1. There would be no output   2. Busy day   3. Not that bad   4. Busy day and then Not that bad | |  |  | | --- | --- | | **Answer** |  | |

**Question 4:** What would the program output be if the lines below were added to it?

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| --- | --- |
| 3  4 | check = "homework" in tasks  print(check) |

|  |  |  |  |
| --- | --- | --- | --- |
| * 1. There would be no output   2. True   3. False   4. ["Maths homework", "English homework"] | |  |  | | --- | --- | | **Answer** |  | |

Task 2 .

The program below creates a list of today’s tasks and then makes some amendments to that list.

|  |  |
| --- | --- |
| 1  2  3  4  5  6 | tasks = ["Maths homework", "English homework",  "Practise music", "Tidy up room"]  tasks[2] = "Science homework"  tasks.pop()  tasks.append("Practise programming")  print(tasks) |

**Question 1:** What will the program output be? (You can refer to the table on the next page for information on the pop and append methods).

|  |  |
| --- | --- |
| **Answer** |  |

Operations on lists .

Source: docs.python.org/3/tutorial/datastructures.html#more-on-lists

|  |  |  |
| --- | --- | --- |
|  | **Add and remove items** | |
|  | list.append(item)  e.g. numbers.append(42) | Add an item to the end of the list. |
|  | list.pop(index)  e.g. last = values.pop() | Remove the item at the given position in the list, and return it. If no index is specified, remove and return the last item in the list. |

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