* Overview of List and Range
* Print all the even numbers from a given Range
* Print all the integers from a list of elements
* Get sum of integers from a list of elements
* Overview of while loops (based on condition)
* Print all above 100 from sorted list. The list should contain elements in descending order.
* Add numbers until non number is entered. If the number is equal to 0, continue. If a non number is entered exit.
* Exercises and Solutions

1. What is a loop in Python?

a) A tool to draw shapes

b) A way to repeat a set of instructions

c) A way to create variables

d) A way to store data

Answer: b) A way to repeat a set of instructions

1. What is the difference between a for loop and a while loop in Python?

a) A for loop is used for counting, while a while loop is used for repeating until a condition is met.

b) A for loop is used for repeating until a condition is met, while a while loop is used for counting.

c) There is no difference, they can be used interchangeably.

d) A for loop is used for repeating a set number of times, while a while loop is used for repeating until a condition is met.

Answer: d) A for loop is used for repeating a set number of times, while a while loop is used for repeating until a condition is met.

1. What is the syntax for a for loop in Python?

a) for i in range(n):

b) for i in list:

c) for i in range(start, end, step):

d) All of the above

Answer: d) All of the above

1. What is the syntax for a while loop in Python?

a) while i in range(n):

b) while i in list:

c) while condition:

d) All of the above

Answer: c) while condition:

1. What is the purpose of the range() function in Python?

a) To create a list of numbers.

b) To iterate through a list of elements.

c) To create a range object that can be used with loops.

d) None of the above.

Answer: c) To create a range object that can be used with loops.

1. What will the following code output?

| for i in range(1, 11):  if i % 2 == 0:  print(i) |
| --- |

a) 1, 3, 5, 7, 9

b) 2, 4, 6, 8, 10

c) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

d) None of the above

Answer: b) 2, 4, 6, 8, 10

1. What will the following code output?

| my\_list = [3, 7, 2, 9, 5] for i in my\_list:  print(i) |
| --- |

a) 3, 7, 2, 9, 5

b) 3 7 2 9 5

c) [3, 7, 2, 9, 5]

d) None of the above

Answer: b) 3 7 2 9 5

1. What will the following code output?

| my\_list = [3, 7, 2, 9, 5]  sum = 0  for i in my\_list:  sum += i  print(sum) |
| --- |

a) 3

b) 26

c) 24

d) None of the above

Answer: b) 26

1. What is the purpose of a while loop in Python?

a) To repeat a set of instructions a fixed number of times.

b) To repeat a set of instructions until a condition is met.

c) To create a list of elements.

d) None of the above.

Answer: b) To repeat a set of instructions until a condition is met.

10. What is the output of the following code?

| my\_list = [101, 90, 80, 70, 60]  for i in my\_list:  if i > 100:  print(i) |
| --- |

a) 101

b) 101 90 80 70 60

c) 0 1 2 3 4

d) None of the above

Answer: a) 101