

```
functions > ...
1  def display_message():
2      |
3      |     print("In this chapter, we are learning about functions and how to use them in python.")
4      |
5      |     #Call the function to display the message
6      |     display_message()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\Dell\Desktop\python.main> & C:/Users/Dell/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Dell/Desktop/python.main
In this chapter, we are learning about functions and how to use them in python.
PS C:\Users\Dell\Desktop\python.main>
```

```
functions > ...
1  def favorite_book(title):
2      |     print("My favourite books is " + title + ".")
3      |
4      |     #Call the function
5      |     favorite_book("AL-QURAAAN")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\Dell\Desktop\python.main> & C:/Users/Dell/AppData/Local/Programs/Python/Python311/python.exe c:/Users/Dell/Desktop/python.main
My favourite books is AL-QURAAAN.
PS C:\Users\Dell\Desktop\python.main>
```

```
functions > ...
1  def make_shirt(size, message):
2      print("The shirt size is " + size + " and the message says: " + message)
3
4      make_shirt("medium", "Hello World!")
5
6
7      make_shirt(size="small", message="Python is fun.")
8
9      def make_shirt(size="large", message="I love Python."):
10         """Prints a summary of the size and message on a t-shirt."""
11         print("The shirt size is " + size + " and the message says: " + message)
12
13     make_shirt()
14     make_shirt("medium")
15
16     # Now call the function with a custom message and size
17     make_shirt("small", "I like python.")
18
19
20     #Cities
21     def describe_city(city, country="pakistan"):
22         print(city.title() + " is in " + country.title())
23
24     # Call the function with different cities and countries
25     describe_city("ISLAMABAD")
26     describe_city("DHAKA", "BANGLADESH")
27     describe_city("NEW DELHI", "INDIA")

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The shirt size is medium and the message says: I love Python.
The shirt size is small and the message says: I like python.
Islamabad is in Pakistan
Dhaka is in Bangladesh
New Delhi is in India
```

```
functions > ...
1  def make_album(artist_name, album_title, num_tracks=None):
2
3      album = {"artist": artist_name, "title": album_title}
4      if num_tracks:
5          album["tracks"] = num_tracks
6      return album
7
8      #Make dictionaries
9      album1 = make_album("kahani", "kaifi")
10     album2 = make_album("mehram", "atif aslam")
11     album3 = make_album("Led Zeppelin", "IV", 8)
12
13     # Print each album dictionary
14     print(album1)
15     print(album2)
16     print(album3)

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\Dell\Desktop\python.main> & C:/Users/Dell/AppData/Local/Programs/Python/Python311.
{'artist': 'kahani', 'title': 'kaifi'}
{'artist': 'mehram', 'title': 'atif aslam'}
{'artist': 'Led Zeppelin', 'title': 'IV', 'tracks': 8}
PS C:\Users\Dell\Desktop\python.main>
```

