

Python output

Q.1

```
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\Pyathon(1).py =====
[20 21 22 23 24]
Current Numbers [20 21 22 23 24]
final numbers [20 0 0 0 0 0 21 0 0 0 0 0 22 0 0 0 0 23 0 0 0 0 0
24]
>>>
```

Q.2

```
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
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```

```
>>>
```

```
===== RESTART: D:\Pyathon(2).py =====
```

```
Enter no.of elements of first array4
```

```
Enter number in first array :1
```

```
Enter number in first array :20
```

```
Enter number in first array :30
```

```
Enter number in first array :40
```

```
[1, 20, 30, 40]
```

```
Enter no.of elements in second array4
```

```
Enter number in second array :22
```

```
Enter number in second array :15
```

```
Enter number in second array :16
```

```
Enter number in second array :18
```

```
[22, 15, 16, 18]
```

```
false
```

```
>>>
```

```
===== RESTART: D:\Pyathon(2).py =====
```

```
Enter no.of elements of first array 3
```

```
Enter number in first array :1
```

```
Enter number in first array :2
```

```
Enter number in first array :3
```

```
[1, 2, 3]
```

```
Enter no.of elements in second array3
```

```
Enter number in second array :1
```

```
Enter number in second array :2
```

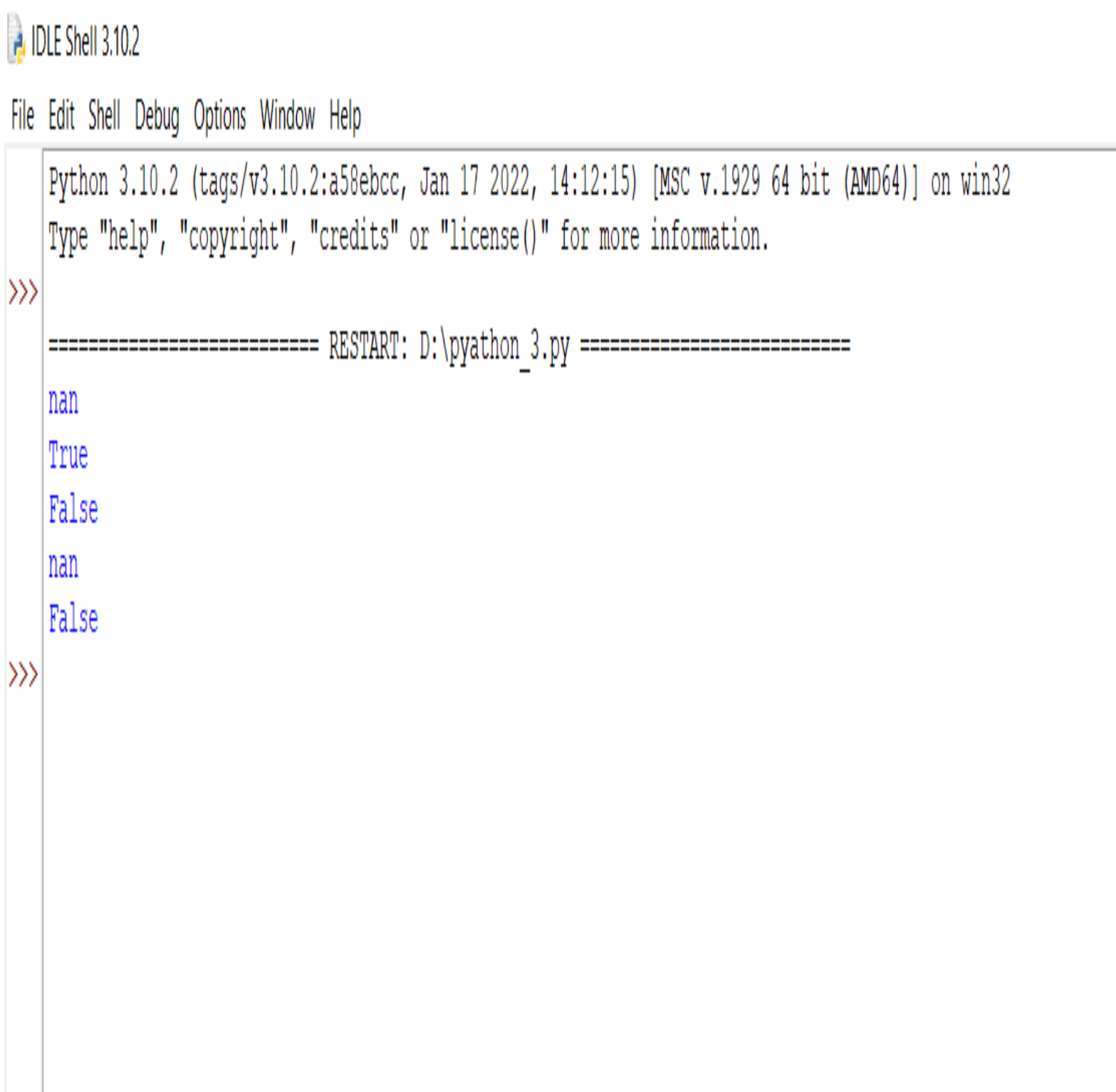
```
Enter number in second array :3
```

```
[1, 2, 3]
```

```
true
```

```
>>>|
```

Q.3



The image shows a screenshot of the Python IDLE Shell 3.10.2 window. The title bar reads "IDLE Shell 3.10.2". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area displays the Python 3.10.2 startup message: "Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32". Below this, it says "Type 'help', 'copyright', 'credits' or 'license()' for more information." There are two red prompt characters ">>>" on the left. The first prompt is followed by a line of text: "nan", "True", "False", "nan", and "False" on separate lines. The second prompt is followed by a line of text: "nan", "True", "False", "nan", and "False" on separate lines. The text is color-coded: "nan" is blue, "True" is green, "False" is red, and "nan" is blue.

```
Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:\pyathon_3.py =====
nan
True
False
nan
False
>>>
```

Q.4

 IDLE Shell 3.10.2

File Edit Shell Debug Options Window Help

Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: D:\pyathon(4).py =====


['Amrita', 'School', 'Of', 'Engineeringchennai', 'Campus']

Amrita School Of Engineeringchennai Campus

>>>

Q.5

1.Addition two numpy arrays

 IDLE Shell 3.10.2

File Edit Shell Debug Options Window Help

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Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: D:\pyathon 5(1).py =====

Enter no.of elements 4

Enter number in first array :19

Enter number in first array :20

Enter number in first array :28

Enter number in first array :04

[19, 20, 28, 4]

Enter number in second array :4

Enter number in second array :13

Enter number in second array :15

Enter number in second array :56

[4, 13, 15, 56]

output number after addition : [23 33 43 60]

>>> |

3.Identity Matrix

IDLE Shell 3.10.2

File Edit Shell Debug Options Window Help

Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license()" for more information.

>>>

===== RESTART: D:\pyathon_5(identity matrix).py =====

Enter a number of nxn matrix : 3

[[1. 0. 0.]

[0. 1. 0.]

[0. 0. 1.]]

>>>

===== RESTART: D:\pyathon_5(identity matrix).py =====

Enter a number of nxn matrix : 5

[[1. 0. 0. 0. 0.]

[0. 1. 0. 0. 0.]

[0. 0. 1. 0. 0.]

[0. 0. 0. 1. 0.]

[0. 0. 0. 0. 1.]]

>>>

|