## **BASIC-PYTHON ASSIGNMENT**

```
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main.py
      """1) Write
   2 a Python program that accepts a hyphen-separated sequence of words as
   4 input
   5 and prints the words in a hyphen-separated sequence after sorting them
   7 alphabetically.
   9 Sample
  10 Items: green-red-yellow-black-white
  12 Expected
  13 Result: black-green-red-white-yellow"""
  15 n = input()
  16 q=[]
  17 q = n.split('-')
  18 q= sorted(q)
19 s="-"
  20 s= s.join(q)
  21 print(s)
 Y 2 3
                                                          input
green-red-yellow-black-white
black-green-red-white-yellow
 ..Program finished with exit code 0
```

```
input

1 2 2 3 3 3 4 1

1 ...Program finished with exit code 0

Press ENTER to exit console.
```

```
  ▶ Run
  O Debug
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                                                                                                 Language Python 3 ×
main.py
   1 """5) Write
   2 a Python program to get the number of occurrences of a specified element in an array."""
   n = list(map(int,input().split()))
p = str(n)
print("enter specific element from list to find the number of occurrences- "+ p)
a = int(input())
q = n.count(a)
print(str(q) +" is the required value")
V 2 3
                                                                input
enter specific element from list to find the number of occurrences- [1, 2, 3, 3, 3, 4, 4]
2 is the required value
 ..Program finished with exit code 0
Press ENTER to exit console.
main.py
  1 """6)
  2 Write a function that computes the volume of a sphere given its radius."""
  4 print("enter radius of sphere")
5 radius = int(input())
  6 pie= 3.17
  7 a = 4/3*pie*radius**3
8 print(str(a)+" is the volume of sphere")
                                                                             input
enter radius of sphere
114.12 is the volume of sphere
```

...Program finished with exit code 0

Press ENTER to exit console.

```
Language Python 3 V
main.py
   2 Write a Python function that accepts a string and calculate the number of upper case letters and
   3 lower case letters.
         Sample
   5 String: 'Hello Mr. Rogers, how are you this fine Tuesday?
   6 Expected Output : No. of Upper case characters : 4,
     def a():
         n = input()
         a=0
         b=0
            if(i.isupper()==True):
               a=a+1
             if(i.islower()==True):
                b += 1
         print("No. of Upper case characters : "+ str(a) + ",")
         print("No. of Lower case Characters : "+ str(b) )
  20 a()
Hello Gemini, happy to have you!
                                                  input
No. of Upper case characters : 2,
No. of Lower case Characters : 23
```

```
main.py
   4 | Sample
5 List: [1,1,1,1,2,2,3,3,3,3,4,5],
   7 Unique
8 List: [1, 2, 3, 4, 5]"""
  10 - def a():
        lis = list(map(int,input().split()))
print(list(set(lis)))
1 1 1 1 2 2 3 3
[1, 2, 3, 4, 5]
                                                    input
...Program finished with exit code 0
Press ENTER to exit console.
main.py
   1 """10)
          Write a Python function to multiply all the numbers in a list.**\n",
             Sample
   4 List: [1, 2, 3, -4],
            Expected
   7 Output : -24" """
   9 def a():
           n = list(map(int,input().split()))
  11
             a= 1
             for i in n:
  12 -
             a = a*i
            print(a)
  15 a()
                                                                             input
```

```
input

1 2 3 -4
-24

...Program finished with exit code 0

Press ENTER to exit console.
```

```
13) Write a Python program to print the following string in a specific
format (see the
output).
Sample String: "Twinkle, twinkle, little star, How I wonder what you
are! Up
above the world so high, Like a diamond in the sky. Twinkle, twinkle,
little star,
How I wonder what you are"
Output:
Twinkle,
twinkle, little star,
     How I
     wonder what you are!
           Up above
           the world so high,
            Like
            a diamond in the sky.
Twinkle,
twinkle, little star,
     How I
wonder what you are
```

## CODE:

## output-

```
"""
2 14)
3 Write a Python program to accept a filename from the user and print the extension of that."""
4 
5 a = input("Enter the Filename ")
6 f_extns = a.split(".")
7 print ("The extension of file is : " + (f_extns[-1]))
8
```

```
Enter the Filename a.c
The extension of file is: c

...Program finished with exit code 0

Press ENTER to exit console.
```

```
main.py
       """16)
    1
      Write a Python program to check whether a specified val
        Test
    4 - Data :
    5 3 -> [1, 5, 8, 3] : True
6 -1 ->[1, 5, 8, 3] : False"""
  n = list(map(int,input().split()))
a = int(input())
if( a in n):
    print("True")
12 else:
            print("False")
  13
  15
                                                                         input
 1 5 8 3
8
True
...Program finished with exit code 0
Press ENTER to exit console.
```

```
main.py

1 h""17)
2 Write a Python program to print all even numbers from a given numbers list in the same order
3 and stop the printing if any numbers that come after 237 in the sequence.
4
5 Sample
6 - numbers list:
7 numbers= [386,462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953, 345, 399, 162, 758, 219, 8 892, 894, 767, 553, 81, 379, 843, 831, 445, 742, 717,958,743, 527]"""
9
10
11 numbers= [386,462, 47, 418, 907, 344, 236, 375, 823, 566, 597, 978, 328, 615, 953, 345, 399, 162, 758, 219, 12 918, 237, 412, 566, 826, 248, 866, 950, 626, 949, 687,217,815, 67, 104, 58, 512, 24, 13 892, 894, 767, 553, 81, 379, 843, 831, 445, 742, 717,958,743, 527]
14
15 for i in numbers:
16 if(i%2=0 and i != 237):
17 print(i,end="")
18 if(i=237):
19 break
20
21 
V X 3
386 462 418 344 236 566 978 328 162 758 918

...Program finished with exit code 0
Press ENTER to exit console.
```

```
main.py

1 """19)
2 Write a Python program to display your details like name, age, address in three different lines."""
3 4
5 name = input()
6 age = int(input())
7 address = input()
8 print("Hello, Iam " + name)
9 print("Iam " + str(age) + " years old")
10 print("I live in " + address)

Puja
22

BenzCIRcle
Hello, Iam Puja
Iam 22 years old
I live in BenzCIRcle
```

```
main.py

1 """21)
2 Write a Python program to print out a set containing all the colors from color_list_1 which are not present
3 in color_list_2.
4 Test
5 Data :
6 color_list_1= set(["White", "Black", "Red"])
7 color_list_2= set(["Red", "Green"])
8 Expected
9 Output : {'Black', 'White'}"""

10
11 color_list_1= set(["White", "Black", "Red"])
12 color_list_2= set(["Red", "Green"])
13 print(color_list_1.difference(color_list_2))
```

```
input
{'Black', 'White'}
...Program finished with exit code 0
Press ENTER to exit console.
```