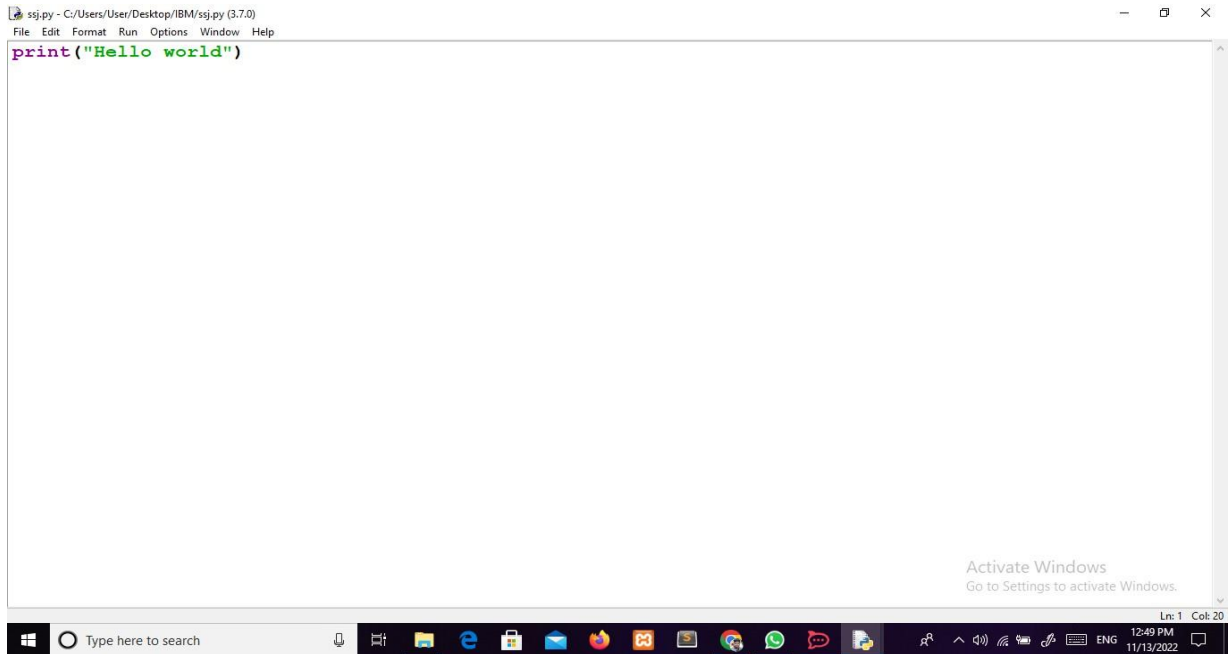


Develop the Python Script

Team ID	PNT2022TMID06458
Project Name	Real-Time River Water Quality Monitoring and Control System



The screenshot shows a Windows 10 desktop environment. A Python script editor window is open, displaying the following code:

```
ssj.py - C:/Users/User/Desktop/IBM/ssj.py (3.7.0)
File Edit Format Run Options Window Help
print("Hello world")
```

The taskbar at the bottom shows the Start button, a search bar, and several pinned applications including File Explorer, Edge, Mail, Firefox, and others. The system tray on the right indicates the time as 12:49 PM on 11/13/2022. An "Activate Windows" watermark is visible in the bottom right corner of the script editor window.

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/User/Desktop/IBM/ssj.py =====
Hello world
>>> |
```

```
Windows Search
Type here to search
"ssj.py - C:/Users/User/Desktop/IBM/ssj.py (3.7.0)"
File Edit Format Run Options Window Help
a=2
b=3
c=4
d=a+b+c
print(d)
e=a-b-c
print(e)
f=a*b*c
print(f)
g=c%2
print(g)
h=c//a
print(h)
```

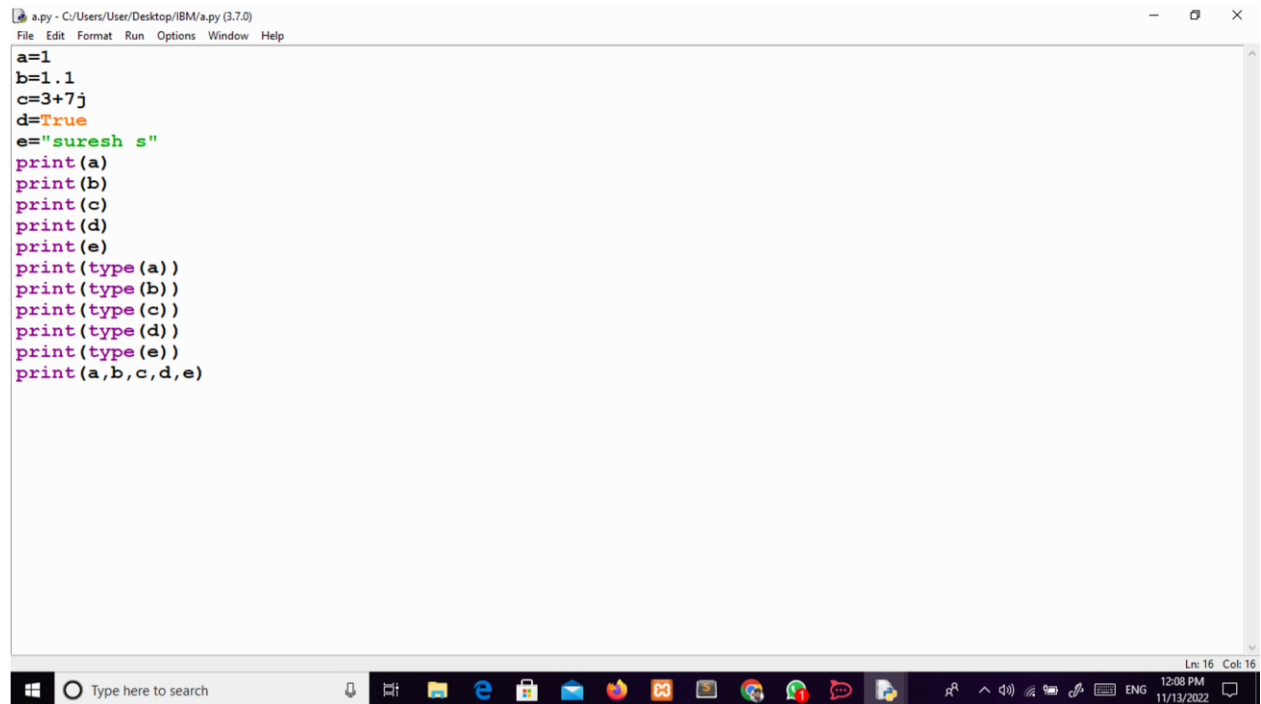
```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/User/Desktop/IBM/ssj.py =====
9
-5
24
0
2
>>>
```

Activate Windows
Go to Settings to activate Windows.

Ln: 10 Col: 4

Type here to search

12:32 PM 11/13/2022



The image shows a screenshot of a Python IDE window titled "a.py - C:/Users/User/Desktop/IBM/a.py (3.7.0)". The window contains a Python script with the following code:

```
a=1
b=1.1
c=3+7j
d=True
e="suresh s"
print(a)
print(b)
print(c)
print(d)
print(e)
print(type(a))
print(type(b))
print(type(c))
print(type(d))
print(type(e))
print(a,b,c,d,e)
```

The code is color-coded: integers are blue, floats are green, complex numbers are red, booleans are orange, and strings are green. The IDE has a menu bar with "File", "Edit", "Format", "Run", "Options", "Window", and "Help". The status bar at the bottom right shows "Ln: 16 Col: 16". The Windows taskbar is visible at the bottom, showing the search bar and various application icons.

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/User/Desktop/IBM/a.py =====
1
1.1
(3+7j)
True
suresh s
<class 'int'>
<class 'float'>
<class 'complex'>
<class 'bool'>
<class 'str'>
1 1.1 (3+7j) True suresh s
>>>
```

```
a.py - C:/Users/User/Desktop/IBM/a.py (3.7.0)
File Edit Format Run Options Window Help
a="surendran"
print(len(a))
print(a[5])
print(a[-4])
print(a[5:9])
print(a[:1])
print(a[::-1])
print(a.find("ren"))
print(a.count("n"))
print(a.replace("s","S"))
print(a.remove(2))
|

Activate Windows
Go to Settings to activate Windows.
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/User/Desktop/IBM/a.py =====
9
d
d
dran
surendran
nardnerus
2
2
Surendran
>>> |
```

Activate Windows
Go to Settings to activate Windows.

Type here to search

12:32 PM
11/13/2022

```
a.py - C:/Users/User/Desktop/IBM/a.py (3.7.0)
File Edit Format Run Options Window Help

a={
    "s1" : {
        "Name" : "Surendran",
        "Degree" : "B.E.",
        "Dept." : "ECE",
        "year" : "Final year",
        "College" : "IGCE"},
    "s2" : {
        "Name" : "Yogendran",
        "Degree" : "B.Sc.",
        "Dept." : "Computer Science",
        "year" : "2nd year",
        "College" : "BHC"
    }
}
print(a)
print(type(a))
print(a["s2"])
print(a["s1"]["Name"])
print(a["s2"]["Name"])

Activate Windows
Go to Settings to activate Windows.

Ln: 20 Col: 11
```

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/User/Desktop/IBM/a.py =====
{'s1': {'Name': 'Surendran', 'Degree': 'B.E.', 'Dept.': 'ECE', 'year': 'Final year', 'College': 'IGCE'}, 's2': {'Name': 'Yogendran', 'Degree': 'B.Sc.', 'Dept.': 'Computer Science', 'year': '2nd year', 'College': 'BHC'}}
<class 'dict'>
{'Name': 'Yogendran', 'Degree': 'B.Sc.', 'Dept.': 'Computer Science', 'year': '2nd year', 'College': 'BHC'}
Surendran
Yogendran
>>>

Activate Windows
Go to Settings to activate Windows.
Ln: 10 Col: 4
```



```
*ssj.py - C:\Users\User\Desktop\IBM\ssj.py (3.7.0)*
File Edit Format Run Options Window Help

a=int(input("enter temperature "))
b=int(input("enter Humidity "))
if a>50:
    if b>90:
        print("Alert Detected...")
    else:
        print("High Temperature Detected..")
elif (a==50):
    print("temp max. threshold reached")
else:
    print("All Good..")

Ln: 12 Col: 0
```

Activate Windows
Go to Settings to activate Windows.

Type here to search

1:18 PM
11/13/2022

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\User\Desktop\IBM\ssj.py =====
enter temperature 70
enter Humidity 50
High Temperature Detected..
>>>
===== RESTART: C:\Users\User\Desktop\IBM\ssj.py =====
enter temperature 80
enter Humidity 100
Alert Detected...
>>>
===== RESTART: C:\Users\User\Desktop\IBM\ssj.py =====
enter temperature 50
enter Humidity 80
temp max. threshold reached
>>>
===== RESTART: C:\Users\User\Desktop\IBM\ssj.py =====
enter temperature 40
enter Humidity 80
All Good..
>>> |

Activate Windows
Go to Settings to activate Windows.
Ln: 23 Col: 4
```