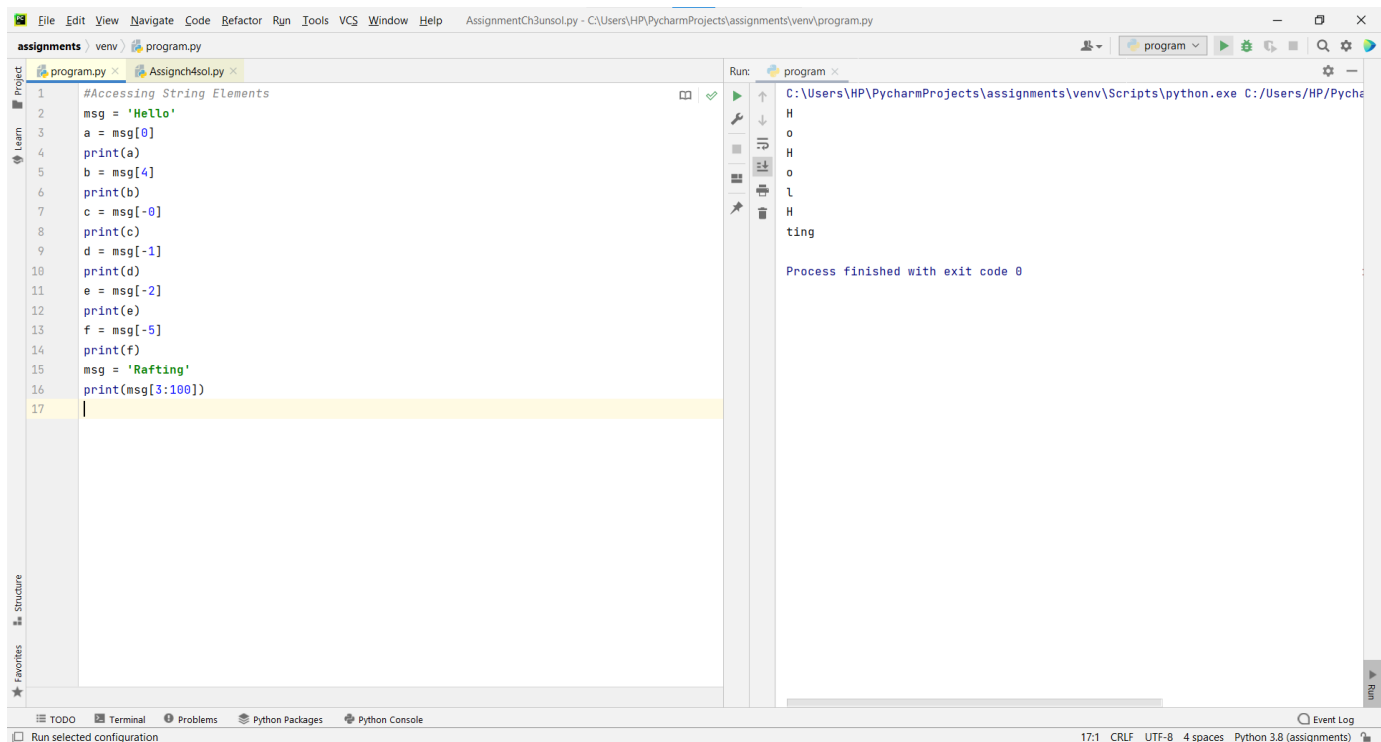


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Subject: Python Programming

Solved Program Assignment -2



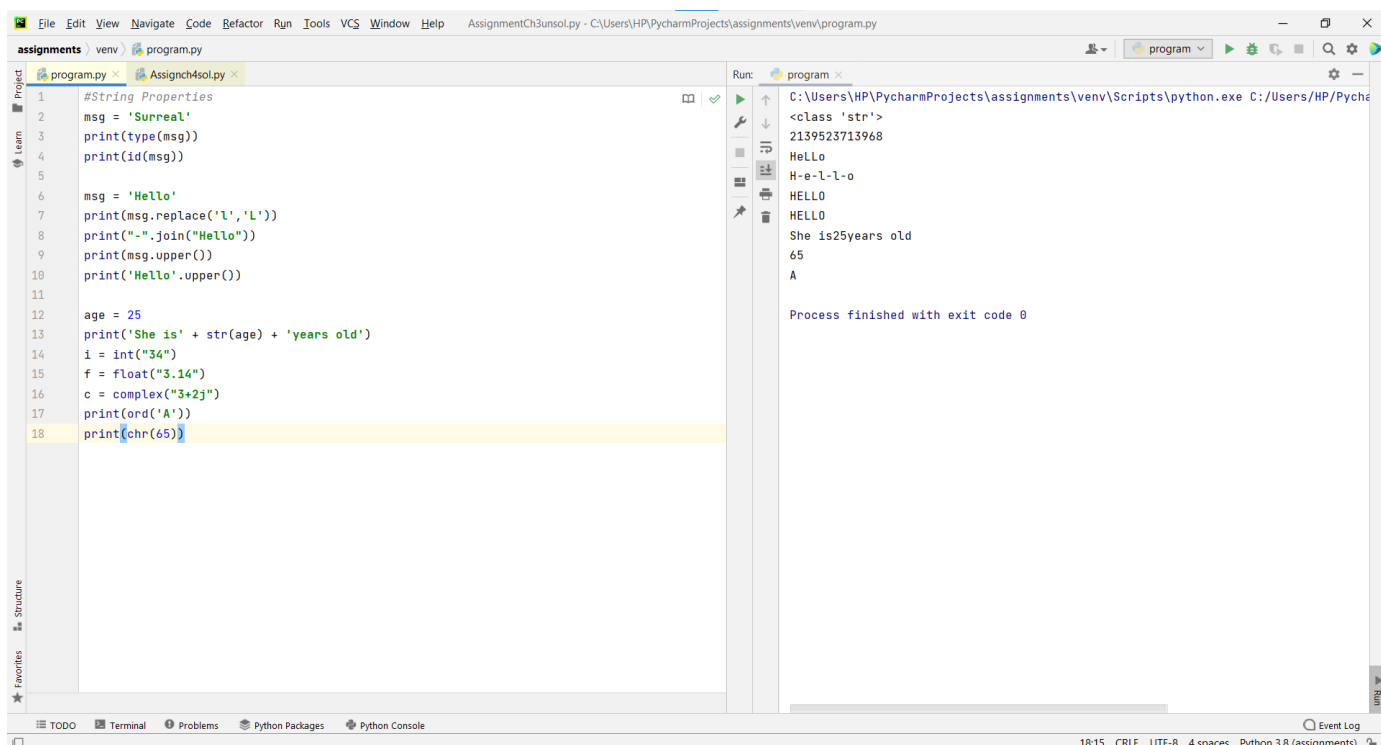
The screenshot shows the PyCharm IDE with a Python file named `program.py`. The code is as follows:

```
1 #Accessing String Elements
2 msg = 'Hello'
3 a = msg[0]
4 print(a)
5 b = msg[4]
6 print(b)
7 c = msg[-8]
8 print(c)
9 d = msg[-1]
10 print(d)
11 e = msg[-2]
12 print(e)
13 f = msg[-5]
14 print(f)
15 msg = 'Rafting'
16 print(msg[3:100])
17
```

The output window on the right shows the execution results:

```
H
o
H
o
l
H
ting

Process finished with exit code 0
```



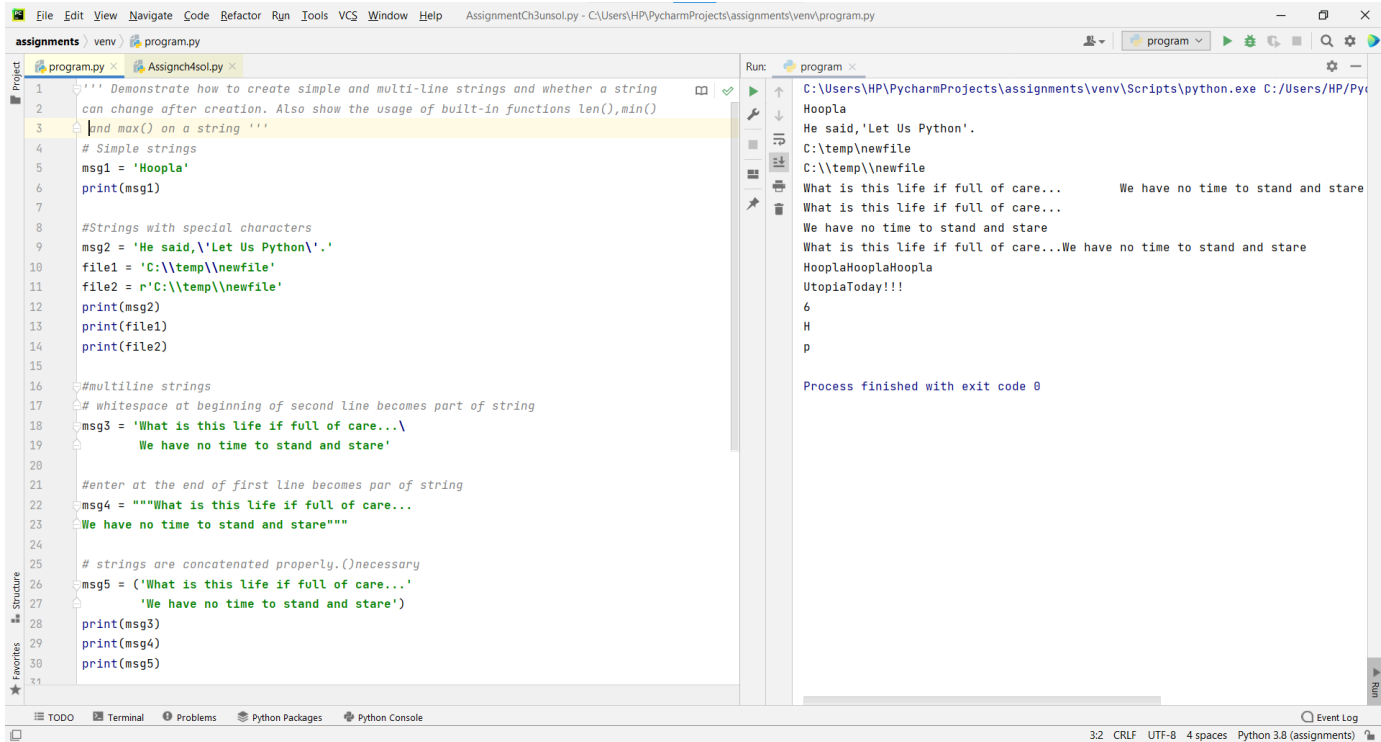
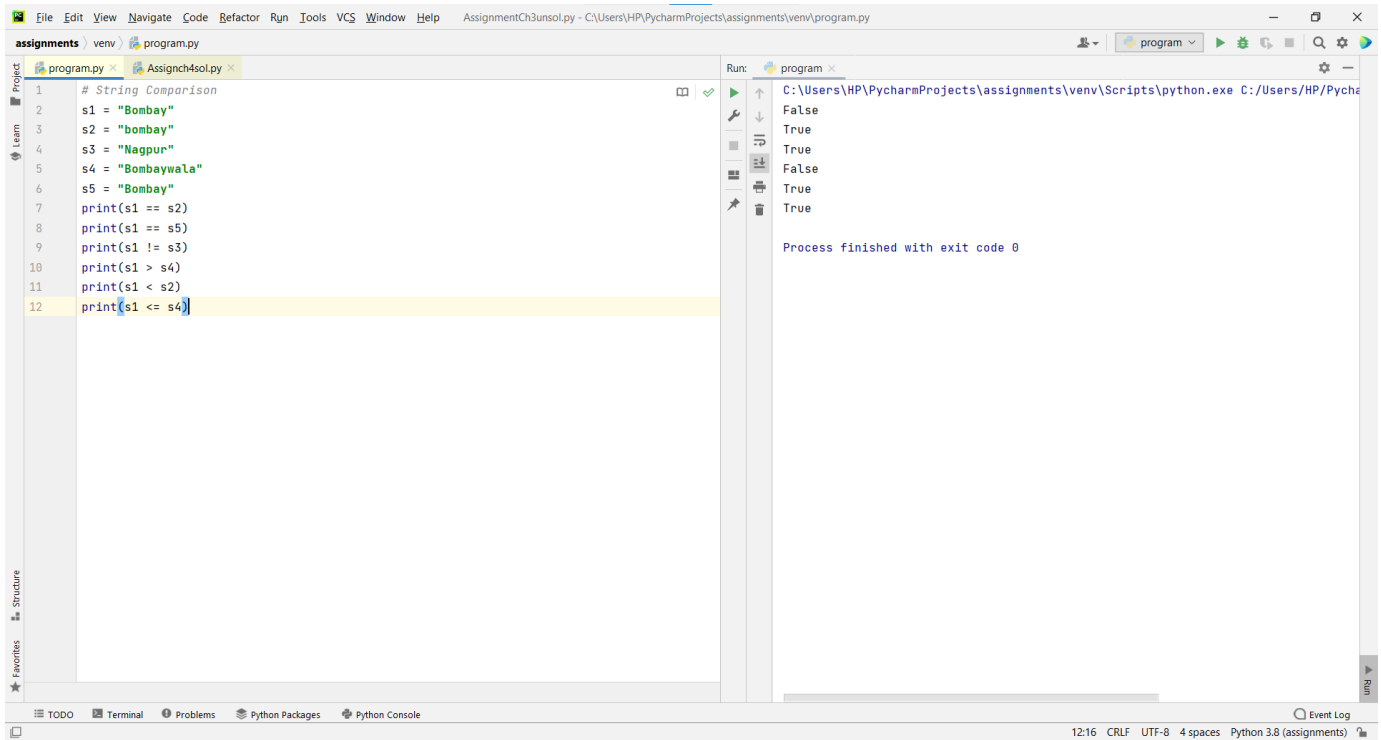
The screenshot shows the PyCharm IDE with a Python file named `program.py`. The code is as follows:

```
1 #String Properties
2 msg = 'Surreal'
3 print(type(msg))
4 print(id(msg))
5
6 msg = 'Hello'
7 print(msg.replace('l', 'L'))
8 print("-".join("Hello"))
9 print(msg.upper())
10 print('Hello'.upper())
11
12 age = 25
13 print('She is' + str(age) + 'years old')
14 i = int("34")
15 f = float("3.14")
16 c = complex("3+2j")
17 print(ord('A'))
18 print(chr(65))
```

The output window on the right shows the execution results:

```
<class 'str'>
2139523713968
Hello
H-e-l-l-o
HELLO
HELLO
She is25years old
65
A

Process finished with exit code 0
```




```
File Edit View Navigate Code Refactor Run Tools VCS Window Help AssignmentCh3unsol.py - C:\Users\HP\PycharmProjects\assignments\venv\program.py
assignments venv program.py
Project Assignch4sol.py program.py
1 """For the following strings find out which are having only alphabets, which are numeric, which are
2 alphanumeric, which are lowercase, which are uppercase. Also find out whether 'And Quiet Flows The Don'
3 begins with 'And' or ends with 'And' :
4 'NitiAayog'
5 'And Quiet Flows The Don'
6 '1234567890'
7 'Make $1000 a day' """
8 s1 = 'NitiAayog'
9 s2 = 'And Quiet Flows The Don'
10 s3 = '1234567890'
11 s4 = 'Make $1000 a day'
12 print('s1 =', s1)
13 print('s2 =', s2)
14 print('s3 =', s3)
15 print('s4 =', s4)
16 # Content test functions
17 print('check isaplpha on s1, s2')
18 print(s1.isalpha())
19 print(s2.isalpha())
20 print('check isdigit on s3, s4')
21 print(s3.isdigit())
22 print(s4.isdigit())
23 print('check isalnum on s1, s2, s3, s4')
24 print(s1.isalnum())
25 print(s2.isalnum())
26 print(s3.isalnum())
27 print(s4.isalnum())
28 print('check islower on s1, s2')
29 print(s1.islower())
30 print(s2.islower())
31 print('check isupper on s1, s2')
Run: program
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe
s1 = NitiAayog
s2 = And Quiet Flows The Don
s3 = 1234567890
s4 = Make $1000 a day
check isaplpha on s1, s2
True
False
check isdigit on s3, s4
True
False
check isalnum on s1, s2, s3, s4
True
False
True
False
check islower on s1, s2
False
False
check isupper on s1, s2
False
False
check startswith and endswith on s2
True
False
Process finished with exit code 0
Event Log
37:1 CRLF UTF-8 4 spaces Python 3.8 (assignments)
```

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help AssignmentCh3unsol.py - C:\Users\HP\PycharmProjects\assignments\venv\program.py
assignments venv program.py
Project Assignch4sol.py program.py
6 '1234567890'
7 'Make $1000 a day' """
8 s1 = 'NitiAayog'
9 s2 = 'And Quiet Flows The Don'
10 s3 = '1234567890'
11 s4 = 'Make $1000 a day'
12 print('s1 =', s1)
13 print('s2 =', s2)
14 print('s3 =', s3)
15 print('s4 =', s4)
16 # Content test functions
17 print('check isaplpha on s1, s2')
18 print(s1.isalpha())
19 print(s2.isalpha())
20 print('check isdigit on s3, s4')
21 print(s3.isdigit())
22 print(s4.isdigit())
23 print('check isalnum on s1, s2, s3, s4')
24 print(s1.isalnum())
25 print(s2.isalnum())
26 print(s3.isalnum())
27 print(s4.isalnum())
28 print('check islower on s1, s2')
29 print(s1.islower())
30 print(s2.islower())
31 print('check isupper on s1, s2')
32 print(s1.isupper())
33 print(s2.isupper())
34 print('check startswith and endswith on s2')
35 print(s2.startswith('And'))
36 print(s2.endswith('And'))
Run: program
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe
s1 = NitiAayog
s2 = And Quiet Flows The Don
s3 = 1234567890
s4 = Make $1000 a day
check isaplpha on s1, s2
True
False
check isdigit on s3, s4
True
False
check isalnum on s1, s2, s3, s4
True
False
True
False
check islower on s1, s2
False
False
check isupper on s1, s2
False
False
check startswith and endswith on s2
True
False
Process finished with exit code 0
03 December 2021 Friday
25:6 CRLF UTF-8 4 spaces Python 3.8 (assignments)
```

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help AssignmentCh3unsol.py - C:\Users\HP\PycharmProjects\assignments\venv\program.py
assignments venv program.py
Assignch4sol.py program.py
1 '''Given the following string:
2 'Bring it on'
3 ' Flanked by spaces on either side'
4 'C:\\Users\\Kanetkar\\Documents'
5 Write a program to produce the following output '''
6
7 s1 = 'Bring It On'
8 # Conversions
9 print(s1.upper())
10 print(s1.lower())
11 print(s1.capitalize())
12 print(s1.title())
13 print(s1.swapcase())
14 #search and replace
15 print(s1.find('I'))
16 print(s1.find('On'))
17 print(s1.replace('It', 'Him'))
18 #trimming
19 s2 = ' Flankedby spaces on either side '
20 print(s2.lstrip())
21 print(s2.rstrip())
22 #splitting
23 s3 = 'C:\\Users\\Kanetkar\\Documents'
24 print(s3.split('\\'))
25 print((s3).partition('\\'))
26
Run program
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe
BRING IT ON
bring it on
Bring it on
Bring It On
bRING iT oN
6
9
Bring Him On
Flankedby spaces on either side
Flankedby spaces on either side
['C:', 'Users', 'Kanetkar', 'Documents']
('C:', '\\', 'Users\\Kanetkar\\Documents')
Process finished with exit code 0
26:1 CRLF UTF-8 4 spaces Python 3.8 (assignments)
```

```
File Edit View Navigate Code Refactor Run Tools VCS Window Help AssignmentCh3unsol.py - C:\Users\HP\PycharmProjects\assignments\venv\program.py
assignments venv program.py
Assignch4sol.py program.py
1 ''' Find all occurrences of 'T' in the string 'The Terrible Tiger Tore The Towel'
2 Replace all occurrences of 'T' with 't' '''
3
4 s = 'The Terrible Tiger Tore The Towel'
5 pos = s.find('T', 0)
6 print(pos, s[pos])
7 pos = s.find('T', pos + 1)
8 print(pos, s[pos])
9 pos = s.find('T', pos + 1)
10 print(pos, s[pos])
11 pos = s.find('T', pos + 1)
12 print(pos, s[pos])
13 pos = s.find('T', pos + 1)
14 print(pos, s[pos])
15 pos = s.find('T', pos + 1)
16 print(pos, s[pos])
17 pos = s.find('T', pos + 1)
18 print(pos)
19 c = s.count('T')
20 s = s.replace('T', 't', c)
21 print(s)
22
23
Run program
C:\Users\HP\PycharmProjects\assignments\venv\Scripts\python.exe
0 T
4 T
13 T
19 T
24 T
28 T
-1
the terrible tiger tore the towerl
Process finished with exit code 0
22:1 CRLF UTF-8 4 spaces Python 3.8 (assignments)
```