

```
1 # 1
2 print("Anything You find cool.")
3
4
5 # 2.1
6 a = 5
7 b = 10
8 print(a + b)
9
10 # 2.2
11 str1 = "Hello"
12 str2 = "World"
13 print(str1 + str2)
14
15 # 2.3
16 num = 42
17 text = "Answer is "
18 print(text + str(num))
19
20
```

Run scratch

```
/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/scratch.py
Anything You find cool.
15
HelloWorld
Answer is 42
Process finished with exit code 0
```

pythonVersion control

Current File

main.pyscratch.pyug.py

2

# 3.1

3

num = -5

4

if num > 0:

5

print("Positive")

6

elif num < 0:

7

print("Negative")

8

else:

9

print("Zero")

10

11

# 3.2

12

num = 4

13

if num % 2 == 0:

14

print("Even")

15

else:

16

print("Odd")

17

Runug

↑

/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py

↓

Negative

Even

Process finished with exit code 0

Scratches > ug.py2:6LFUTF-84 spacesPython 3.13

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 ug 

```
/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py
```

```
Process finished with exit code 0
```

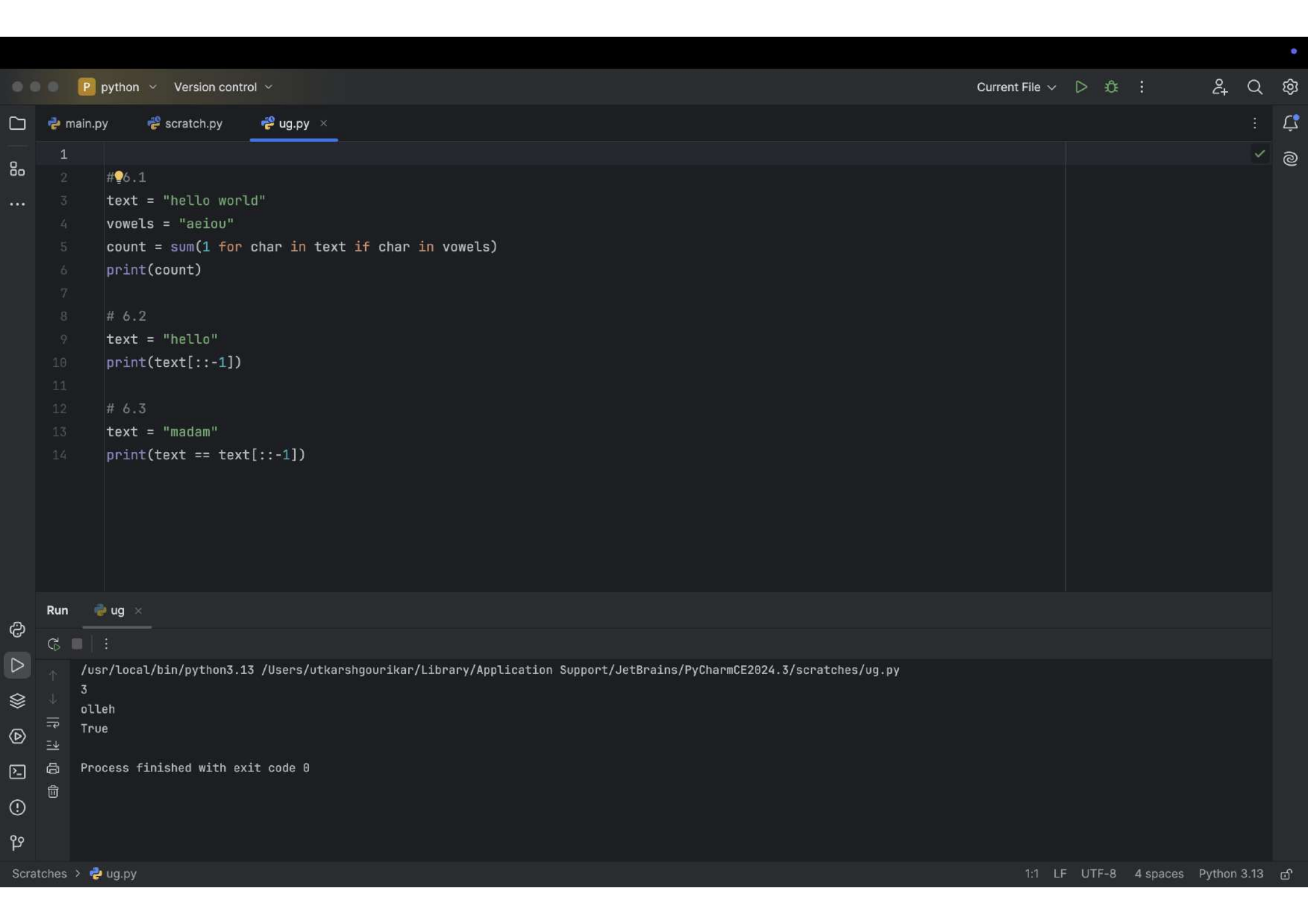


©

```
1 # 6. Strings
2 # 6.1
3 text = "hello world"
4 vowels = "aeiou"
5 count = sum(1 for char in text if char in vowels)
6 print(count)
7
8 # 6.2
9 text = "hello"
10 print(text[::-1])
11
12 # 6.3
13 text = "madam"
14 print(text == text[::-1])
```

Run ug

```
/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py
3
olleh
True
|
Process finished with exit code 0
```



python Version control

Current File



main.py scratch.py ug.py

```
1
2 # 6.1
3 text = "hello world"
4 vowels = "aeiou"
5 count = sum(1 for char in text if char in vowels)
6 print(count)
7
8 # 6.2
9 text = "hello"
10 print(text[::-1])
11
12 # 6.3
13 text = "madam"
14 print(text == text[::-1])
```

Run ug

```
/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py
3
olleh
True
Process finished with exit code 0
```

Scratches > ug.py

1:1 LF UTF-8 4 spaces Python 3.13



```
/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py
```

Hello World Appended Text

```
Process finished with exit code 0
```

```
1 # 8.1
2 try:
3     result = 10 / 0
4 except ZeroDivisionError:
5     print("Division by zero is not allowed.")
6
7 # 8.2
8 try:
9     num = int(input("Enter a number: "))
10    print(num)
11 except ValueError:
12    print("Invalid input.")
13
14 # 8.3
15 try:
16     result = 10 / 2
17 finally:
18     print("This will always execute.")
19
```

```
↑ /usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py
↓ Division by zero is not allowed.
Enter a number: 32
32
This will always execute.
Process finished with exit code 0
|
```



pythonVersion control

Current File

main.pyscratch.pyug.py

1# 9.1

2import random

3print([random.randint(a: 1, b: 100) for \_ in range(5)])

4

5# 9.2

6num = random.randint(a: 1, b: 100)

7is\_prime = all(num % i != 0 for i in range(2, int(num\*\*0.5) + 1))

8print(is\_prime)

9

10# 9.3

11print(random.randint(a: 1, b: 6))

12

13# 9.4

14nums = [1, 2, 3, 4, 5]

15random.shuffle(nums)

16print(nums)

17

18# 9.5

19items = [1, 2, 3, 4, 5]

20print(random.choice(items))

21

22# 9.6

23import string

Runug

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/usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py

Division by zero is not allowed.

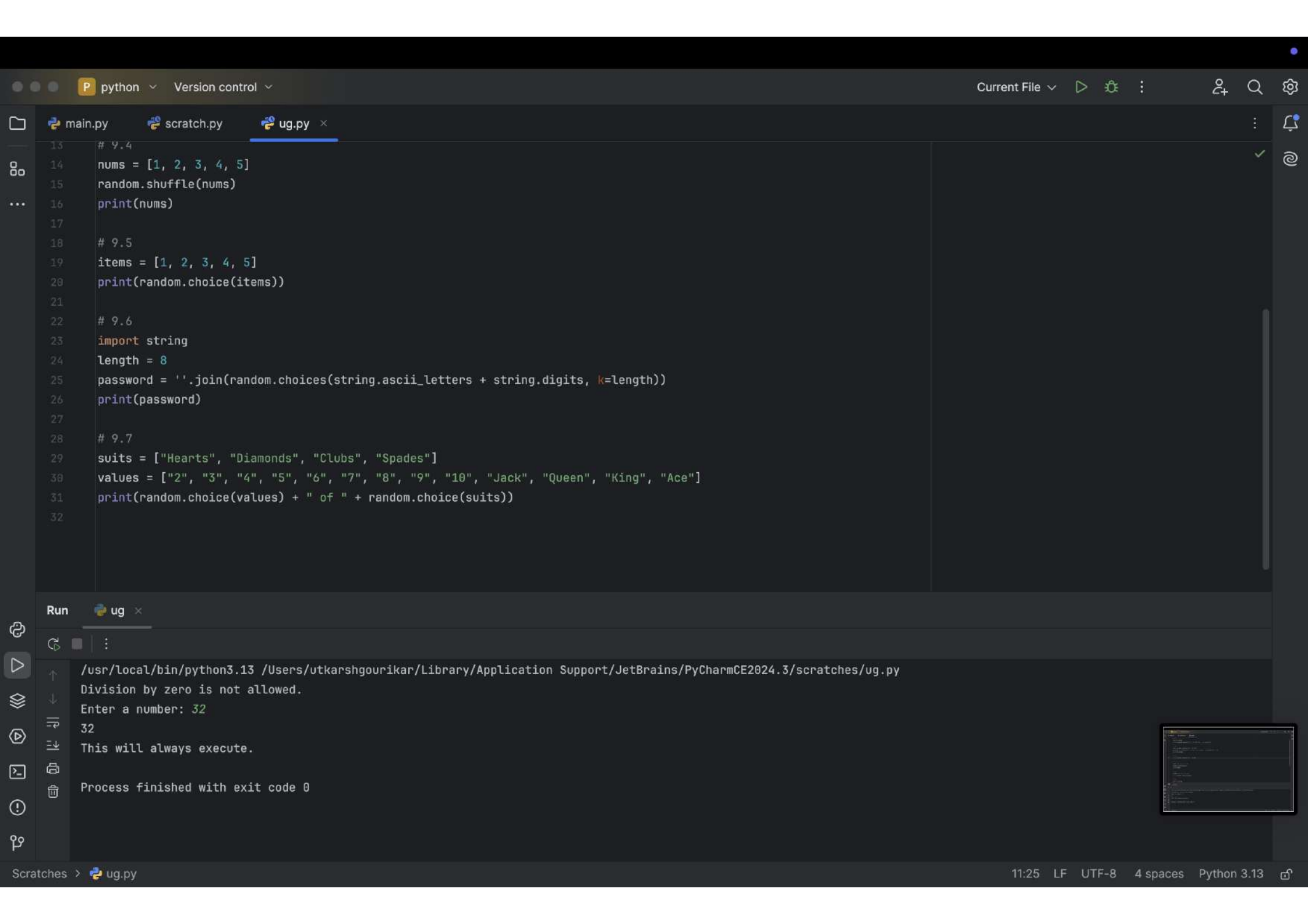
Enter a number: 32

32

This will always execute.

Process finished with exit code 0

Scratches > ug.py11:25LFUTF-84 spacesPython 3.13



```
13 # 9.4
14 nums = [1, 2, 3, 4, 5]
15 random.shuffle(nums)
16 print(nums)
17
18 # 9.5
19 items = [1, 2, 3, 4, 5]
20 print(random.choice(items))
21
22 # 9.6
23 import string
24 length = 8
25 password = ''.join(random.choices(string.ascii_letters + string.digits, k=length))
26 print(password)
27
28 # 9.7
29 suits = ["Hearts", "Diamonds", "Clubs", "Spades"]
30 values = ["2", "3", "4", "5", "6", "7", "8", "9", "10", "Jack", "Queen", "King", "Ace"]
31 print(random.choice(values) + " of " + random.choice(suits))
32
```

Run

ug



```
↑ /usr/local/bin/python3.13 /Users/utkarshgourikar/Library/Application Support/JetBrains/PyCharmCE2024.3/scratches/ug.py
↓ Division by zero is not allowed.
Enter a number: 32
32
This will always execute.
Process finished with exit code 0
```



