

Python - Tutorial 2 with Solution

For Loop

Q1

```
for i in range(5):  
    print("Yes")  
print("No")
```

Q1 Answer

```
Yes  
Yes  
Yes  
Yes  
Yes  
No
```

Q2

```
value = 5  
for i in range(value):  
    print("Yes")  
print("No")
```

Q2 Answer

```
Yes  
Yes  
Yes  
Yes  
Yes  
No
```

Q3

```
value = 5  
for i in range(value):  
    print("Yes", i, value)  
print(value)
```

Q3 Answer

```
Yes 0 5  
Yes 1 5  
Yes 2 5  
Yes 3 5  
Yes 4 5  
5
```

Q4

```
value = "Monday"
for i in value:
    print(i)
print(value)
```

Q4 Answer

```
M
o
n
d
a
y
Monday
```

Q5

```
value = "Monday"
for i in value + "Tuesday":
    print(i)
print(value)
```

Q5 Answer

```
M
o
n
d
a
y
T
u
e
s
d
a
y
Monday
```

Q6

```
value = "Monday"
for i in value + "Tuesday":
    if i == "d":
        print(i)
```

Q6 Answer

```
d
d
```

Q7

```
value = "Monday"
for i in value + "Tuesday":
    if i == "d":
        print(i)
    print(i)
```

Q7 Answer

```
M
o
n
d
d
a
y
T
u
e
s
d
d
a
y
```

Data Structure - String

Q8

```
value = "rainbow"
print(value[0:5])
```

Q8 Answer

```
rainb
```

Q9

```
value = "rainbow"
print(value[1:1])
```

Q9 Answer

Q10

```
value = "rainbow"  
print(value[5:0])
```

Q10 Answer

Q11

```
value = "rainbow" + "rainbow"  
print(value[7:])
```

Q11 Answer

rainbow

Q12

```
value = "rainbow"  
print(value[-1])
```

Q12 Answer

w

Q13

```
value = "rainbow"  
print(value[-5])
```

Q13 Answer

i

Q14

```
value = "rainbow"  
print(value[0] + value[4] + value[6])
```

Q14 Answer

rbw

Data Structure - List

Q14

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]  
print(value[2])
```

Q14 Answer

```
Wednesday
```

Q15

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]  
print(value[2:5])
```

Q15 Answer

```
[Wednesday, Thursday, Friday]
```

Q16

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]  
print(value[2+3-1])
```

Q16 Answer

```
Friday
```

Q17

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]  
print(value[0][0])
```

Q17 Answer

```
M
```

Q18

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]  
print(len(value) + 1)
```

Q18 Answer

```
6
```

Q19

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]  
print(len(value[0 + 1]))
```

Q19 Answer

```
7
```

Q20

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]
print(value[0] + value[2])
```

Q20 Answer

```
MondayWednesday
```

Q21

```
value = ["Monday", "Tuesday", "Wednesday", "Thursday", "Friday"]
print(value[1][0] + value[3][1] + value[1][1] + "rsday")
```

Q21 Answer

```
Thursday
```

Functions

Q22

```
def print_days():
    print("Monday")
    print("Tuesday")

for i in range(3):
    print_days()
```

Q22 Answer

```
Monday
Tuesday
Monday
Tuesday
Monday
Tuesday
```

Q23

```
def print_days():
    for i in range(3):
        print("Monday")
        print("Tuesday")

print_days()
```

Q23 Answer

```
Monday
Monday
```

```
Monday
Tuesday
```

Q24

```
def print_days():
    for i in "Monday":
        print("Monday")

print_days()
```

Q24 Answer

```
Monday
Monday
Monday
Monday
Monday
Monday
```

Q25

```
def grapes():
    print("grapes")

def banana():
    grapes()
    print("banana")

def apple():
    banana()
    print("apple")

apple()
```

Q25 Answer

```
grapes
banana
apple
```

Q26

```
def grapes():
    return "grapes"

def banana():
    return "banana" + grapes()

def apple():
    return banana()
```

```
print(apple())
```

Q26 Answer

```
bananagrapes
```

Q27

```
def grapes():  
    return "grapes"  
  
def banana():  
    return "banana" + grapes()  
  
def apple(value):  
    if value == 'banana':  
        return banana()  
    else value == 'grapes':  
        return grapes()  
  
print(apple('grapes'))
```

Q27 Answer

```
grapes
```

Q28

```
def monday():  
    return "m"  
  
def tuesday():  
    return "t"  
  
def wednesday():  
    return "w"  
  
def all():  
    return monday() + tuesday() + wednesday()  
  
value = all() + "day"  
print(value)
```

Q28 Answer

```
mtwday
```

Q29

```
def monday():  
    return "m"
```



```
def tuesday():  
    return "t"  
  
def wednesday():  
    monday()  
    tuesday()  
    return "w"  
  
def all():  
    return monday() + tuesday() + wednesday()  
  
value = all() + "day"  
print(value)
```

Q29 Answer

mtwday

Q30

```
def monday():  
    value = 1  
    return value  
  
value = 5  
monday()  
print(value)
```

Q30 Answer

5