<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Variables, Datatypes in Python.</u> / <u>Week1 Quiz</u>

Started on	Thursday, 14 March 2024, 1:41 PM
State	Finished
Completed on	Thursday, 14 March 2024, 1:51 PM
Time taken	10 mins 29 secs
Grade	10.00 out of 10.00 (100 %)
Question 1	
Correct	
Mark 1.00 out of 1.00	

What will be the datatype of the var in the below code snippet?

var = 10

print(type(var))

var = "Hello"

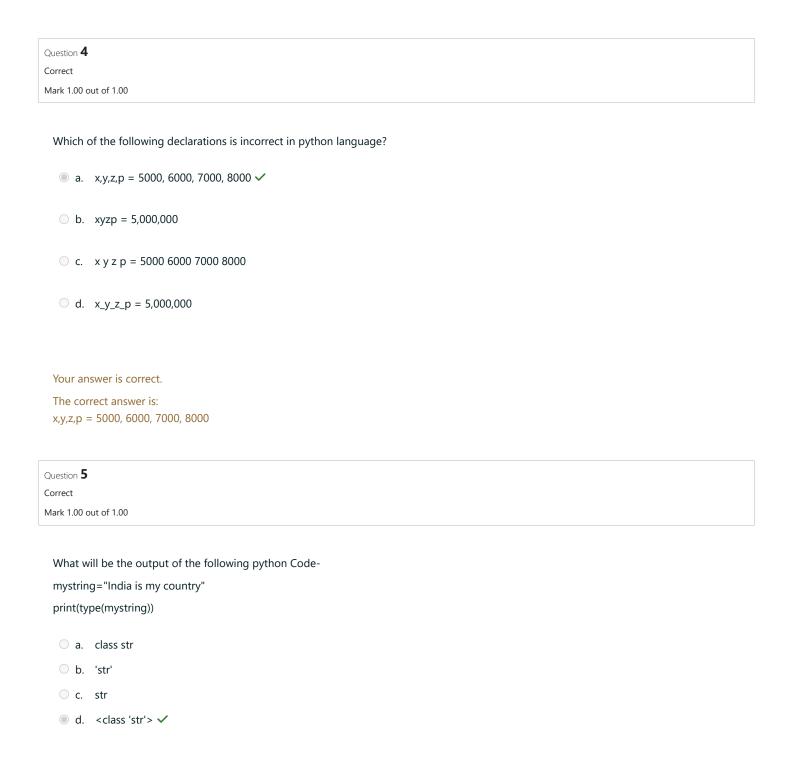
print(type(var))

- a. No output
- b. float and str
- c. int and int
- d. int and str ✓

Your answer is correct.

The correct answer is: int and str

Correct		
Mark 1.00 out of 1.00		
Which of	f the following <u>functions</u> is a built-in function in python language?	
○ a.	printf()	
b.	print() ✓	
O c.	val()	
O d. :	scanf()	
Your ansv	wer is correct.	
	ect answer is:	
print()		
Question 3		
Correct		
Mark 1.00 ou	it of 1.00	



Your answer is correct.

The correct answer is: <class 'str'>

Question 6
Correct
Mark 1.00 out of 1.00
Which one of the following is the correct extension of the Python file?
○ acpp
○ bp
○ dpython
Your answer is correct.
The correct answer is:
.ру
Question 7
Correct
Mark 1.00 out of 1.00
What will be the output of the following code snippet?
print(type(5 / 2))
○ b. str
\circ c. int
○ d. obj
Your answer is correct.
The correct answer is:
float

Question 8	
Correct	
Mark 1.00 o	ut of 1.00
What w	ill be the output of the following code snippet?
a = 3	
b = 1	
print(a,	b)
a, b = b	, a
print(a,	b)
(a)	31 ✓
· a.	13
O h	No output
О с.	
○ C.	31
O d.	
	3 1
Your an	swer is correct.
	rect answer is:
3 1	
13	
Question 9	
Correct	
Mark 1.00 o	out of 1.00
Who de	eveloped the Python language?
a.	Guido Van Rossum ✓
O b.	Dennis Ritchie
О с.	Von Neumann
d.	Bill Gates

Your answer is correct.

The correct answer is: Guido Van Rossum

Question 10
Correct
Mark 1.00 out of 1.00
What do we use to define a block of code in Python language?
a. Curly brace
○ b. Key
⊚ c. Indentation ✓
○ d. Parenthesis
Your answer is correct.
The correct answer is:
Indentation
■ Basics of Python
Jump to

Week1_Coding ►

For example:

Input	Result
10 10.9	10, <class 'int'=""> 10.9,<class 'float'=""></class></class>

	Input	Expected	Got	
~	10 10.9	10, <class 'int'=""> 10.9,<class 'float'=""></class></class>	10, <class 'int'=""> 10.9,<class 'float'=""></class></class>	~
~	12 12.5	12, <class 'int'=""> 12.5,<class 'float'=""></class></class>	12, <class 'int'=""> 12.5,<class 'float'=""></class></class>	~
~	89 7.56	89, <class 'int'=""> 7.6,<class 'float'=""></class></class>	89, <class 'int'=""> 7.6,<class 'float'=""></class></class>	~
~	55000 56.2	55000, <class 'int'=""> 56.2, <class 'float'=""></class></class>	55000, <class 'int'=""> 56.2,<class 'float'=""></class></class>	~

Input	Result	
10000	16000	

Answer: (penalty regime: 0 %)

```
| a=int(input()) |
| b=a*0.4 |
| c=a*0.2 |
| d=a+b+c |
| print(d) |
```

	Input	Expected	Got	
~	10000	16000	16000.0	~
~	20000	32000	32000.0	~
~	28000	44800	44800.0	~
~	5000	8000	8000.0	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

For example:

Input	Result
14.00	3.742

Answer: (penalty regime: 0 %)

```
1 | a=float(input()) | b=a**0.5 | print(round(b,3)) |
```

	Input	Expected	Got	
~	8.00	2.828	2.828	~
~	14.00	3.742	3.742	~
~	4.00	2.000	2.0	~
~	487	22.068	22.068	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

15000

Sample Output:

46.34 is the gain percent.

For example:

Input	Result				
45500	30.43	is	the	gain	percent.
500					
60000					

```
1  | x=int(input())
2  | y=int(input())
3  | z=int(input())
4  | c=x+y
5  | p=z-c
6  | g=p/c
7  | h=g*100
8  | print("%.2f is the gain percent."%h)
```

	Input	Expected	Got	
~	10000	46.34 is the gain percent.	46.34 is the gain percent.	~
	250			
	15000			

For example:

Input	Result
20 20	Your total refund will be \$7.00.

	Input	Expected	Got	
~	20 20	Your total refund will be \$7.00.	Your total refund will be \$7.00.	~
~	11 22	Your total refund will be \$6.60.	Your total refund will be \$6.60.	~
~	123 200	Your total refund will be \$62.30.	Your total refund will be \$62.30.	~

Sample Input:

450

Sample Output:

weekdays 10.38

weekend 0.38

For example:

Input	Result
450	weekdays 10.38 weekend 0.38

```
1 | a=int(input())

2 | b=a-500

3 | c=b/130

4 | d=abs(c)

6 | print("weekdays %.2f" %e)

7 | print("weekend %.2f" %d)
```

■ Week1_Quiz

Jump to...

Operators -

In the Python statement x = a + 6 - c-d:

- a and b are _
- a + 6 c-d is _____
- lacksquare a. operands, an expression \checkmark
- ob. terms, a group
- operators, a statement
- Od. operands, an equation

Your answer is correct.

The correct answer is: operands, an expression

O d. _var

Your answer is correct.

The correct answer is:

5var

O d.

• True True False True

• False True False True

Your answer is correct.

O c.

The correct answer is:

• False True True True

b.	✓
	<class '<u="">list'></class>
O c.	<class 'complex'=""></class>
O d.	<class 'int'=""></class>

Your answer is correct.

The correct answer is:

<class '<u>list</u>'>

○ c. x := 35			
\odot d. $x = 35$			
Your answer is correct.			
The correct answer is:			
x = 35			
Question 6			
Correct			
Mark 1.00 out of 1.00			
What will be the output of statement 2**2*	**2**2		
The state of the suspension of the state of			

a. 16b. 256

c. 65536 ✓d. 32768

Your answer is correct.
The correct answer is:

65536

True	a.	
False		
False		

b. FalseFalseTrue

C. True

True

d. True FalseTrue

Your answer is correct.

The correct answer is:

True

False

True

Your answer is correct.	
The correct answer is:	
4	
Question 9	
Correct	
Mark 1.00 out of 1.00	
What is the output of the following code	
x = 5	
y = 3	
print(x == y)	
o b. Error	
○ c. 5==3	
O d. True	
Your answer is correct.	
The correct answer is:	
False	

b. 1c. 10d. 4

79		
Question 11		
Correct		
Mark 1.00 out of 1.00		

Which among the following <u>list</u> of <u>operators</u> has the highest precedence?

+, -, **, %, /, <<, >>, |

a. %b. ** ✓c. |

○ d. <<,>>

Your answer is correct.
The correct answer is:

Your answer is correct.

The correct answer is:

**

Question 13	
Incorrect	
Mark 0.00 out of 1.00	

What is the output of the following code: print 11//2?

- a. 5.5
- Ob. Error
- oc. 5.0
- d. 5 ×

Your answer is incorrect.

The correct answer is:

Error

Dependent 15 Convect What is the output of the following expression? z=2 z**=3 print(z) a. 3 b. 0 c. 8 ✓ d. Error Your answer is correct. The correct answer is: ### Operators Jump to Week2_Coding ►		
What is the output of the following expression? z=2 z**=3 print(z) a. 3 b. 0 c. 8 ✓ d. Error Your answer is correct. The correct answer is: 8 Operators Jump to	Question 15	
What is the output of the following expression? z=2 z**=3 print(z) a. 3 b. 0 c. 8 d. Error Your answer is correct. The correct answer is: 8 Ump to	Correct	
z=2 z**=3 print(z) a. 3 b. 0 c. 8 d. Error Your answer is correct. The correct answer is: 8	Mark 1.00 out of 1.00	
z=2 z**=3 print(z) a. 3 b. 0 c. 8 d. Error Your answer is correct. The correct answer is: 8		
print(z) a. 3 b. 0 c. 8 d. Error Your answer is correct. The correct answer is: 8 Operators Jump to	What is the output of the following expression?	
print(z) a. 3 b. 0 c. 8 d. Error Your answer is correct. The correct answer is: 8	z=2	
 a. 3 b. 0 c. 8 ✓ d. Error Your answer is correct. The correct answer is: 8 Operators Jump to	z**=3	
 b. 0 c. 8 ✓ d. Error Your answer is correct. The correct answer is: 8 ✓ Operators Jump to	print(z)	
 b. 0 c. 8 ✓ d. Error Your answer is correct. The correct answer is: 8 ✓ Operators Jump to		
 b. 0 c. 8 ✓ d. Error Your answer is correct. The correct answer is: 8 ✓ Operators Jump to		
 ○ c. 8 ✓ ○ d. Error Your answer is correct. The correct answer is: 8 ✓ Operators Jump to	○ a. 3	
 ○ d. Error Your answer is correct. The correct answer is: 8 ✓ Operators Jump to 	○ b. 0	
Your answer is correct. The correct answer is: 8 Operators Jump to	⊚ c. 8 ✓	
The correct answer is: 8 Operators Jump to	○ d. Error	
The correct answer is: 8 Operators Jump to		
The correct answer is: 8 Operators Jump to		
8 ■ Operators Jump to		
✓ Operators Jump to		
Jump to		
Jump to		
	→ Operators	
Week2_Coding ►	Jump to	
		Week2_Coding ►

Your answer is correct.
The correct answer is:

24.0



43

Sample Output:

False

For example:

Input	Result
32	False
43	

	4 3 -3 7
1	a=int(input())
2	b=int(input())
3	<pre>print(a%3==0 and b%2==0)</pre>

Answer: (penalty regime: 0 %)

```
1 | a=int(input())
   b=a*0.04
  c=a+b
3
4 print("Balance as of end of Year 1: $%.2f."%c )
5 d=c+(c*0.04)
6 print("Balance as of end of Year 2: $%.2f."%d)
7 e=d+(d*0.04)
8 print("Balance as of end of Year 3: $%.2f."%e)
```

	Input	Expected	Got	
~	10000	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.	Balance as of end of Year 1: \$10400.00. Balance as of end of Year 2: \$10816.00. Balance as of end of Year 3: \$11248.64.	~
~	20000	Balance as of end of Year 1: \$20800.00. Balance as of end of Year 2: \$21632.00. Balance as of end of Year 3: \$22497.28.	Balance as of end of Year 1: \$20800.00. Balance as of end of Year 2: \$21632.00. Balance as of end of Year 3: \$22497.28.	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

nee to is an even named and an anison settles to and too, made is printed

For example:

Input	Result	
101	False	

Answer: (penalty regime: 0 %)

```
1 | a=int(input())
2 | print(a!=0 and a<100 and a>0)
```

	Input	Expected	Got	
~	56	True	True	~
~	101	False	False	~
~	-1	False	False	~

Passed all tests! 🗸

```
0
Output 1:
C
```

```
Input 2:

1
Output 1:
D
```

For example:

Input	Result
0	С

//

197	7
-197	7

Answer: (penalty regime: 0 %)

	er: (penaity regime: 0 %)	
1	a=int(input())	
2	b=abs(a)	
	c=b%10	
4	<pre>print(c)</pre>	

	Input	Expected	Got	
~	197	7	7	~
~	-197	7	7	~

Passed all tests! 🗸

Correct

For example:

Input	Res	ult											
100	The	tax	is	5.00	and	the	tip	is	18.00,	making	the	total	123.00

Answer: (penalty regime: 0 %)

```
1 | a=float(input())
2 b=a*0.05
3 c=a*0.18
4 d=a+b+c
5 print("The tax is %.2f"%b, "and the tip is %.2f,"%c, "making the total %.2f"%d)
```

	Input	Expected	Got	
~	100	The tax is 5.00 and the tip is 18.00, making the total 123.00	The tax is 5.00 and the tip is 18.00, making the total 123.00	~
~	250	The tax is 12.50 and the tip is 45.00, making the total 307.50	The tax is 12.50 and the tip is 45.00, making the total 307.50	~

Passed all tests! ✓

```
52512109
```

OUTPUT

True False True False

For example:

Input	Result			
5	True	False	True	True
25				
23				
20				
10				

```
| n=int(input()) |
| p1=int(input()) |
| p2=int(input()) |
| p3=int(input()) |
| p4=int(input()) |
| print(p1%n==0, end=' ') |
| print(p2%n==0, end=' ') |
| print(p3%n==0, end=' ') |
| print(p4%n==0, end=' ') |
```

32

Passed all tests! 🗸

Correct

19 45 Sample Output True For example: Input Result 18 False 40 Answer: (penalty regime: 0 %) 1 | a=int(input()) 2 | b=int(input()) 3 print(a>=18 and b>40)

Input consists of two integers that correspond to the age and weight of a person respectively.

Output Format:

Sample Input

Display True(IF ELIGIBLE)

Display False (if not eligible)

//

	Input	Expected	Got	
~	10 20	The total weight of all these widgets and gizmos is 2990 grams.	The total weight of all these widgets and gizmos is 2990 grams.	~

Passed all tests! ✓

Correct

For example:

Input	Result
3	2

Answer: (penalty regime: 0 %)

```
1 | a=int(input())
2 | b=bin(a).count('1')
3 | print(b)
```

	Input	Expected	Got	
~	3	2	2	~
~	5	2	2	~
~	15	4	4	~

Passed all tests! ✓

Correct

What is the output of the following code.

```
a=90
if a>100:
    if(a<=90 and a==90):
        print("REC")
    else:
        print("OPEN-ELECTIVE")</pre>
```

- a. No output
- b. RECOPEN-ELECTIVE
- ◎ c. REC ×
- od. OPEN-ELECTIVE

Your answer is incorrect.

The correct answer is: No output

Question 3				
Correct				
Mark 1.00 out of 1.00				
Python supports	types of control structu	res.		
, , , , , , , , , , , , , , , , , , , ,	71			
O a. 4				
O b. 2				
© c. 3 ✓				
O d. 1				

Your answer is correct.
The correct answer is:

The correct answer is:

3

35

Correct
Mark 1.00 out of 1.00
Which of the following options correctly prints the phrase "Hurry Up!!"?
a. print("Hurry Up!!") ✓
○ b. print(Hurry Up!!!)
C. printf("Hurry Up!!")
d. print_sentence(Hurry Up!!!)
Your answer is correct.

Question **5**

The correct answer is: print("Hurry Up!!")

○ c. False		
Your answer is correct.		
The correct answer is:		
True		
Question 7		
Correct		
Mark 1.00 out of 1.00		

```
x,y=1,2
if(x or y):
    print("1")
else:
    print("0")

    a. Runtime error
    b. 1 
    c. 0

    d. Compile time error
```

b. True

✓

Your answer is correct.

The correct answer is:

1

Your answer is	correct.		
The correct ans	wer is:		
IIT IIT Ropar			
Question 9			
Correct			
Mark 1.00 out of 1.00	1		
Wark 1.00 Cut of 1.00			
Can we write if	else into one line in python?		
oa. No			
b. Yes ✓			
Your answer is	correct.		
The correct ans	wer is:		
Yes			

Od. IIT Punjab

Your answer is correct.		
The correct answer is:		
Know Program		
Question 11		
Correct		
Mark 1.00 out of 1.00		

What is the output of the following code snippet?

```
a = "Hi"
b = "Arjuna"
c = "Bhimaa"
print("Hi", a, b, c)

a. Hi Arjuna Bhimaa Hi
b. Hi Arjuna Hi Bhimaa
c. Hi Hi Arjuna Bhimaa ✓
d. Hi Arjuna Bhimaa
```

b. Know Program

d. Hello

oc. Compiled Successfully, No Output.

Your answer is correct.

The correct answer is: Hi Hi Arjuna Bhimaa

0 is fals	se se
Question 1	3
Correct	
Mark 1.00	out of 1.00
	is an empty statement in Python.
○ a.	Jump
O b.	Empty
C.	pass 🗸
O d.	None

Your answer is correct.
The correct answer is:

Your answer is correct.
The correct answer is:

pass

a. REC
REC

b. REC

c. No output
REC

d. false
REC

Your answer is correct.

The correct answer is: REC

our answer is correct.
he correct answer is: x is greater than 2, x will equal 0 after this code executes
■ Selection control structures
Jump to

 $\bigcirc\,$ c. if x is lesser then 0,x will be 0 after this code executes

od. x will always equal 0 after this code executes for any value of x

Week3_coding ►

Sample Output 2

Sometimes it's a vowel... Sometimes it's a consonant.

Sample Input3

C

Sample Output 3

It's a consonant.

For example:

Input	Result
у	Sometimes it's a vowel Sometimes it's a consonant.
С	It's a consonant.

```
| n=input()
| if n=="a" or n=="e" or n=="o" or n=="u":
| print("It's a vowel.")
| elif n=="y":
| print("Sometimes it's a vowel... Sometimes it's a consonant.")
| else:
| print("It's a consonant.")
```

```
Sample Input 2
40
40
80
Sample Output 2
That's a isosceles triangle
Sample Input 3
50
60
70
Sample Output 3
That's a scalene triangle
```

For example:

Result
That's a equilateral triangle
That's a isosceles triangle

```
1    a=int(input())
2    b=int(input())
3    c=int(input())
4    if a==b==c:
        print("That's a equilateral triangle")
6    v elif a==b and a!=c:
        print("That's a isosceles triangle")
8    v else:
9        print("That's a scalene triangle")
10
```

~	50 60 70	That's a scalene triangle	That's a scalene triangle	~
~	50 50 80	That's a isosceles triangle	That's a isosceles triangle	~
~	10 10 10	That's a equilateral triangle	That's a equilateral triangle	~

Passed all tests! <

Correct

```
Sample Test Cases
Test Case 1
Input
3
5
4
Output
yes
Test Case 2
Input
5
8
2
Output
no
```

//

March has 31 days in it.
Sample Input 3

April

Sample Output 3

April has 30 days in it.

For example:

Input		Result							
	February	February	has	28	or	29	days	in	it.

```
month=input()
if month=='January' or month=='March' or month=='May' or month=='July' or month=='August' or month=='Octc
print(month, "has 31 days in it.")
elif month=='February':
    print(month, "has 28 or 29 days in it.")
else:
    print(month, "has 30 days in it.")
```

Input
50
Output
100.00
Test Case 2
Input
300
Output

517.50

For example:

	Input	Result
100.00	120.00	
	500	1035.00

```
1 | a=float(input())
2 v if a<=199:</pre>
         b=a*1.20
3
         if b<100:
4 ▼
5
             b=100
 6
             print("%.2f"%b)
 7 ▼
         else:
8
             print("%.2f"%b)
9 v elif a>=200 and a<400:
10
         b=a*1.50
11 v elif a>=400 and a<600:
12
         b=a*1.80
13 🔻
    else:
         b=a*2.00
14
15 v if b>400:
16
         b=b+(b*0.15)
         print("%.2f"%b)
17
18
```

//

```
2007 Pig
2008 Rat
2009 Ox
2010 Tiger
2011 Hare
```

Write a program that reads a year from the user and displays the animal associated with that year. Your program should work correctly for any year greater than or equal to zero, not just the ones listed in the table.

Sample Input 1

2010

Sample Output 1

2010 is the year of the Tiger.

Sample Input 2

2020

21

Sample Output 2

2020 is the year of the Rat.

Answer: (penalty regime: 0 %)

print(a,"is the year of the 0x.")

print(a,"is the year of the Tiger.")

22 v elif a>=0 and a%12==6:

```
1 | a=int(input())
 2 + if a >= 0 and a%12 == 8:
       print(a,"is the year of the Dragon.")
 4 v elif a>=0 and a%12==9:
 5
      print(a,"is the year of the Snake.")
 6 v elif a>=0 and a%12==10:
 7
      print(a,"is the year of the Horse.")
 8 •
    elif a>=0 and a%12==11:
      print(a,"is the year of the Sheep.")
9
10 v elif a>=0 and a%12==0:
        print(a,"is the year of the Monkey.")
11
12 ▼ elif a>=0 and a%12==1:
13
       print(a,"is the year of the Rooster.")
14 v elif a>=0 and a%12==2:
       print(a,"is the year of the Dog.")
15
16 v elif a>=0 and a%12==3:
       print(a,"is the year of the Pig.")
17
18 v elif a>=0 and a%12==4:
        print(a,"is the year of the Rat.")
20 v elif a>=0 and a%12==5:
```

		//

Input consists of 2 integers.
The first integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.
Output Format:
Output consists of the string "IN" or "OUT".
Sample Input and Output:
Input
8
3
Output
OUT

For example:

Input	Result
8	OUT
3	

	Input	Expected	Got	
~	8	OUT	OUT	~
~	8	IN	IN	~
~	20 9	OUT	OUT	~
~	50 31	IN	IN	~

Passed all tests! 🗸

Correct

.500

Sample Output 1

1900 is not a leap year.

Sample Input 2

2000

Sample Output 2

2000 is a leap year.

	Input	Expected	Got	
~	1900	1900 is not a leap year.	1900 is not a leap year.	~
~	2000	2000 is a leap year.	2000 is a leap year.	~
~	2100	2100 is not a leap year.	2100 is not a leap year.	~
×	2020	2020 is a leap year.	2020 is not a leap year.	×

•	
197	9
5	-1

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	197	9	9	~
~	-197	9	9	~
~	5	-1	-1	~
~	123456	5	5	~
~	8	-1	-1	~

Passed all tests! 🗸

Correct

```
70
60
80
```

Output

The candidate is eligible

Test Case 2

Input

50

80

80

Output

The candidate is eligible

Test Case 3

Input

50

60

40

Output

The candidate is not eligible

For example:

Input	Result
70	The candidate is eligible
60	
80	

```
1 maths=int(input())
2 physics=int(input())
3 chemistry=int(input())
4 r if maths>=65 or physics>=55 and chemistry>=50:
5     print("The candidate is eligible")
```

`		70 60 80	The candidate is eligible	The candidate is eligible	~
`	/	50 80 80	The candidate is eligible	The candidate is eligible	~
•	/	50 60 40	The candidate is not eligible	The candidate is not eligible	~
`	/	20 10 25	The candidate is not eligible	The candidate is not eligible	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Week3_mcq

Jump to...

Iteration control structures ►

a.	for
O b.	switch
O c.	do-while
O d.	while

Question $\boldsymbol{2}$

Complete

Predict the output of the program?

for x in range(2, 8, 5):

print(x)

- a. 2468
- b. 2345678
- c. 27
- Od. 28

	0
O b.	0
	0
	1
	1
	0
O c.	0
	0
	1
	2
	0
O d.	0
	1
	1
	1
	0
Question 4	
omplete	
Syntax o	of range()
О а.	(start, step, stop)
O b.	(stop, step, start)

c. (step, stop, start)d. (start, stop, step)

Question 6	
Complete	
True= Fa	
while(Tr	
	print(True) break
What is	the output of the following?
○ a.	No output
○ a.	No output
a.b.	
	False
○ b.○ c.	False True
○ b.○ c.	False
○ b.○ c.	False True

Complete

How many times it will print the statement? for i in range(102): print(i)

Answer: 101 times(from 0 to 101)

```
How many times it will print the statement?

for i in range(102):
    print(i)

Answer: 101 times (from 0 to 101)
```

Question 10

Complete

```
Predict the output of the program?
for x in range(4):
   if x == 3: break
     print(x)
   else:
     print("Finally finished!")
```

a. 0

1

2

3

Finally Finished!

- b. Finally Finished!
- oc. 0

1

2

3

O d. 0

1

2

	••
True= F	
while(T	
	print(True)
	break
What is	s the output of the following?
О а.	False
O b.	No output
c.	Syntax Error
O d.	True
uestion 1 .	3

Complete

Which one of them is the correct syntax of for loop in python?

- b. for [item] in [sequence]:
 loop body
- C. for [item] in [item]:
 loop body
- d. for[sequence] in [sequence]:
 loop body

O b.	Prints 0,1,2
O c.	Compilation Error
d.	Prints nothing
◄ Itera	ation control structures
Jump 1	to

a. Runtime Error

Week4_Coding ►

For example:

Input	Result
292	1
1015	2
108	3
22	0

	Input	Expected	Got	
~	292	1	1	~
~	1015	2	2	~
~	108	3	3	~
~	22	0	0	~

The given input number will always be greater than or equal to 1.

Due to the range supported by int. the input numbers will range from 1 to 12.

For example:

Input	Result
5	120
4	24
9	362880

	Input	Expected	Got	
~	5	120	120	~
~	4	24	24	~

- fifth Fibonacci number is 3,
- sixth Fibonacci number is 5,
- seventh Fibonacci number is 8, and so on.

For example:

Input	Result
1	0
4	2
7	8

	Input	Expected	Got	
~	1	0	0	~

Example Input:

13

Output:

No

Answer: (penalty regime: 0 %)

```
n=int(input())
 1
 2
     flag=0
3 v for i in range(1,10,1):
4 v for j in range(1,10,1):
5 v if i*j==n:
6
                    flag=1
7
                    break
 8 v if flag==1:
         print("Yes")
9
10 v else:
          print("No")
11
12
```

	Input	Expected	Got	
~	14	Yes	Yes	~
~	13	No	No	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

```
1015 3
```

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	292	2	2	~
~	1015	3	3	~
~	123	3	3	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Explanation

1^1 + 7^2 +5^3 = 175

Example Input:

123

Output:

No

For example:

Input	Result
175	Yes
123	No

```
1  n=int(input())
 2
    temp=n
 3
    a=0
 4 v while n!=0:
5
        n=n//10
6
        a=a+1
7 n=temp
8
   sum=0
9 v while n!=0:
10
        rem=n%10
        sum=sum+(rem**a)
11
12
        n=n//10
13
        a=a-1
14 ▼ if sum==temp:
        print("Yes")
15
16 ▼ else:
        print("No")
17
```

```
10 1
```

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	7	2	2	~
~	10	1	1	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	10	16	16	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Example Input:

26

Output:

No

For example:

Input	Result
24	Yes

Answer: (penalty regime: 0 %)

		Input	Expected	Got	
~	•	24	Yes	Yes	~
~	•	26	No	No	~

Passed all tests! 🗸

```
Input
6
```

Output

123456

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	4	1234	1234	~
~	6	123456	123456	~

Passed all tests! 🗸



Marks for this submission: 1.00/1.00.

Concept of slicing is used in this question. In string slicing, the output is the substring starting from the first given index position i.e. 2 to one less than the second given index position i.e. (8-1=7) of the given string str1. Hence, the output will be "format". The correct answer is: format Question 2 orrect	What will be the output of below Python code?
Answer: format Concept of slicing is used in this question. In string slicing, the output is the substring starting from the first given index position i.e 2 to one less than the second given index position i.e.(8-1=7) of the given string str1. Hence, the output will be "format". The correct answer is: format	str1="Information"
Concept of slicing is used in this question. In string slicing, the output is the substring starting from the first given index position i.e. 2 to one less than the second given index position i.e. (8-1=7) of the given string str1. Hence, the output will be "format". The correct answer is: format Question 2 orrect	print(str1[2:8])
Concept of slicing is used in this question. In string slicing, the output is the substring starting from the first given index position i.e. 2 to one less than the second given index position i.e. (8-1=7) of the given string str1. Hence, the output will be "format". The correct answer is: format Question 2 orrect	
	Answer: format
uestion 2 porrect	
orrect	The correct answer is: format
orrect	
	uestion 2
lark 1.00 out of 1.00	orrect
	lark 1.00 out of 1.00

What is the output of the following Code? print(ord('D'))

Answer:

The correct answer is: 68

	the output of the following code? "abcde".center(7), '*', sep='')
О а.	*abcde*
O b.	*abcde *
c.	* abcde * 🗸
O d.	* abcde*

Your answer is correct.

The correct answer is:

* abcde *

Correct

Mark 1.00 out of 1.00

Question 6
Correct
Mark 1.00 out of 1.00

Python considered the character enclosed in triple quotes as String.

Select one:

True ✓
False

The correct answer is 'True'.

The correct answer is: ApplicAtion

Your answer is correct.			
The correct answer is: Error			
Question 8			
Correct			
Mark 1.00 out of 1.00			
What is the index value of	'i' in string "Learning"		
○ a. 6			
O b. 7			
○ c. 3			
⊚ d. 5 ✓			
Your answer is correct.			
The correct answer is:			

c. Arvijayakumar

O d. A

Your answer is correct.

The correct answer is:

-1

Question 10

Correct

Mark 1.00 out of 1.00

```
What is the output of the following code?
```

```
my_string = 'vijay'
for i in range(len(my_string)):
    print (my_string)
    my_string = 'a'
```

- a. vaaaaaaaaaaa
- b. vijay a a a a String is modified only after 'vijay' has been printed once.
- c. None
- d. Error

Your answer is correct.

The correct answer is: vijay a a a a

Question 12		
Correct		
Mark 1.00 ou	t of 1.00	
What wil	be the output of the following code?	
a = 'ab'		
b = 4		
print(a*b		
Answer:	abababab	\
(J
The corre	ect answer is: abababab	
42		
Question 13		
Correct	(400	
Mark 1.00 ou	t of 1.00	
What is t	he output of the following Code?	
print(ord	('C'))	
Answer:	67	>
l		J

The correct answer is: 67

a. [Wii, twiii ii, ve so wiii]		
Your answer is incorrect.		
The correct answer is:		
Wh t will h ve so will		
uestion 15		
ncorrect		
Mark 0.00 out of 1.00		
What is the output of the following code?		
my_string = "arvjayakumar"		
i = "i"		
<pre>while i in my_string: print(i, end =" ")</pre>		
⊚ a. iiiiii ×		
O b. None		
oc. arvjayakumar		
○ d. arvjayakumar		

Your answer is incorrect.

The correct answer is:

None

◄ Strings

Jump to...

Week5_Coding ►

Input	Result
Wipro Technologies Bangalore	TECHNOLOGIES
Hello World	WORLD
Hello	LESS

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	Wipro Technologies Bangalore	TECHNOLOGIES	TECHNOLOGIES	~
~	Hello World	WORLD	WORLD	~
~	Hello	LESS	LESS	~

Passed all tests! 🗸

Correct

Answer: (penalty regime: 0 %)

```
s=input()
    temp=0
x=""
 2
3
4 v for i in s:
        if i.isalpha():
5 🔻
6
            print(x*temp,end="")
7
            temp=0
8
           x=i
9 🔻
           temp=temp*10+int(i)
10
print(x*temp,end="")
```

	Input	Expected	Got	
~	a2b4c6	aabbbbccccc	aabbbbccccc	~
~	a12b3d4	aaaaaaaaaabbbdddd	aaaaaaaaaabbbdddd	~

Passed all tests! 🗸

Correct

	Input	Expected	Got	
~	Yn PYnative	True	True	~
~	Ynf PYnative	False	False	~

Correct

```
Input Result

A&x# x&A#
```

Answer: (penalty regime: 0 %)

```
1 | s=input()
2 | x=" "
3 v for i in s:
4 ▼
     if i.isalpha():
           x=x+i
6 x=x[::-1]
7 y=0
8 v for i in s:
9 🔻
       if i.isalpha():
10
           print(x[y],end="")
11
           y=y+1
12 ▼
        else:
            print(i,end="")
13
```

	Input	Expected	Got	
~	A&B	В&А	B&A	~

Passed all tests! 🗸

Correct

second third

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	first second first third second	first second third	first second third	~
~	rec cse it rec cse	rec cse it	rec cse it	~

Passed all tests! 🗸

Example Input/Output 1:

Input:

abcbde

cdefghbb

3

Output:

bcd

Note:

b occurs twice in common but must be printed only once.

Answer: (penalty regime: 0 %)

```
s1=input()
    s2=input()
   n=int(input())
3
4 a=""
5 v for i in s1:
6 ▼
       if (i in s2) and (not i in a):
7
           a=a+i
8 •
            if len(a)>=n:
9
               break
   print(a)
10
11
12
```

	Input	Expected	Got	
~	abcbde cdefghbb 3	bcd	bcd	~

is my mother tongue

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	Malayalam is my mother tongue	is my mother tongue	is my mother tongue	~

Passed all tests! 🗸

Correct

	Input	Expected	Got	
~	rec@123	3	3	~
		3	3	
		1	1	
~	P@#yn26at^&i5ve	8	8	~
		3	3	
		4	4	
~	abc@12&	3	3	~
		2	2	
		2	2	

Correct

xprı

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	experience enc	xpri	xpri	~

Passed all tests! ✓

Correct

Example Input/Output 1:

Input:

abcd@gmail.com

Output:

com

gmail

abcd

For example:

Input	Result
arvijayakumar@rajalakshmi.edu.in	edu.in
	rajalakshmi
	arvijayakumar

Answer: (penalty regime: 0 %)

moons_mod

Jump to...

List ►

Choose a correct statement
a. <u>List</u> are immutable
 b. <u>List</u> is data structure in python used to store the sequence of same types.
\odot c. List is data structure in python used to store the sequence of various types. \checkmark
○ d.
Your answer is correct.
The correct answer is:
<u>List</u> is data structure in python used to store the sequence of various types.
1
Question 2 Correct
Mark 1.00 out of 1.00
Suppose list1 is [35, 55, 25, 11, 3], what is min(list1)?
O b. 11
○ c. 35
Your answer is correct.
The correct answer is:
3

Question 4		
Correct		
Mark 1.00 ou	of 1.00	
L=[1,5,9]		
print(sun	n(L),max(L),min(L))	
(
Answer:	15 9 1	✓

The correct answer is: 15 9 1

The correct answer is:

<u>List</u>

Your answer is correct.

_						
-	he.	cor	rect	ansv	ver	15.

['A', 'B', 'C']

Question 6	
Correct	
Mark 1.00 out of 1.00	

Find the output?

list1 = list('REC_CSE_ECE')

print(list1.index('_'))

a. -4

b. 3

c. AttributeError: 'list' object has no attribute 'index'

d. 4

Your answer is correct.

The correct answer is:

3

The correct answer is: [4, 3]

Question 8
Correct
Mark 1.00 out of 1.00
What will be the output of the following Python code?
1. >>>names = ['Amir', 'Bear', 'Charlton', 'Vaishali']
2. >>>print(names[-1][-1])
○ a. A
○ c. Vaishali
Your answer is correct.
The correct answer is:
i i

Mark 0.00 out of 1.00

Writ	е	the	ou	tput	of	the	following:
	_						

T=(1,2,3,4,5.5)L = <u>list(T)</u>

print(L*2)

Answer: [1,2,3,4,5.5,1,2,3,4,5.5]

The correct answer is: [1, 2, 3, 4, 5.5, 1, 2, 3, 4, 5.5]

Question 11

Correct

Mark 1.00 out of 1.00

Which of the following can delete an element from a <u>list</u>, if its value is given?

- a. extend()
- b. del()
- oc. pop()
- d. remove()
 ✓

Your answer is correct.

The correct answer is: remove()

Question 13	
Correct	
Mark 1.00 out of 1.00	
Suppose listExample is ['h','e','l','l','o'], what is len(listExample)?	
○ a. 4	

Your answer is correct.

b. Errorc. 5 ✓

The correct answer is:

5

	Question 15 Correct
٨	Mark 1.00 out of 1.00
	What will be the output after the following statements? m = ['July', 'September', 'December'] n = m[1] print
	O a. December
	○ c. July
	Od. ['July', 'September', 'December']
	Your answer is correct.
	The correct answer is: September
	✓ List
	Jump to

Week6_Coding ►

```
    1
    2
    3
    0
    4
    5
    6
    Output
```

True

Answer: (penalty regime: 0 %)

```
2 a=[]
3 flag=0
4 v for i in range(n):
5
       t=int(input())
6
       a.append(t)
7 v if a==sorted(a) or a==sorted(a,reverse=True):
8
       flag=1
9 ▼ for i in range(n):
10
       b=a.copy()
11
       b.pop(i)
12 🔻
       if b==sorted(b) or b==sorted(b,reverse=True):
          flag=1
13
14 print(flag==1)
```

Correct

For example:

Input	Result
1	1
3	
1	
3	
5	
4	
1	0
3	
1	
3	
5	
99	

	Input	Expected	Got	
~	1	1	1	~
	3			
	1			
	3			
	5 4			
	4			
~	1	0	0	~
	3			
	1			
	3			
	5			
	99			

Correct

```
2
1
3
5
7
2
4
6
8
Sample Output
[[1, 3, 2, 4], [5, 7, 6, 8]]
```

Answer: (penalty regime: 0 %)

```
a=int(input())
 2
    b=int(input())
3
    x=[]
4
    y=[]
5
   A=a
6 v for i in range(a):
7
        z=[]
8 🔻
        for j in range(b):
9
            t=int(input())
10
            z.append(t)
        if(a==A):
11 •
12
            x.append(z)
13 •
        else:
14
            a=a+r
15 •
    for i in range(a):
16
        z=[]
17
        for i in range(b):
18
            t1=int(input())
19
            z.append(t1)
        if a==A:
20
21
            y.append(z)
22 🔻
        else:
23
            y=y+z
24 v for i in range(b):
       x[i].extend(y[i])
26 print(list(x))
```

```
5
1
2
3
6
9
4
2
4
5
```

Sample Output 1

1 2 3 4 5 6 9 10

Answer: (penalty regime: 0 %)

```
1 | n1=int(input())
 2 a=[]
3 v for i in range(n1):
        t1=int(input())
 4
5
        a.append(t1)
 6 n2=int(input())
7 b=[]
8 v for i in range(n2):
       t2=int(input())
10
        b.append(t2)
11
    c=[]
12 v for i in a:
13 🔻
       if i not in c:
14
            c.append(i)
15 v for i in b:
16 •
        if i not in c:
            c.append(i)
17
18 d=sorted(c)
19 v for i in d:
       print(i,end=" ")
20
```

	30		
	35		
	9		
	1		
	3		
	4		
	5		
	7		
	8		
	11		
	13		
	22		

Correct

```
5 is present at location 3
5 is present 2 times in the array.
Sample Test Cases
Test Case 1
Input
4
5
6
5
7
5
Output
5 is present at location 1.
5 is present at location 3.
5 is present 2 times in the array.
Test Case 2
Input
5
67
80
45
97
100
50
Output
50 is not present in the array.
Answer: (penalty regime: 0 %)
```

	Input	Expected	Got	
~	4	5 is present at location 1.	5 is present at location 1.	~
	5	5 is present at location 3.	5 is present at location 3.	
	6	5 is present 2 times in the array.	5 is present 2 times in the array.	
	5			
	7			
	5			
~	5	50 is not present in the array.	50 is not present in the array.	~
	67			
	80			
	45			
	97			
	100			
	50			

Correct

```
45
23
40
```

Output

```
23 occurs 3 times
45 occurs 2 times
56 occurs 1 times
40 occurs 1 times
```

Answer: (penalty regime: 0 %)

- It is guaranteed that a solution always exists. The first line contains an integer n, the size of the array arr. Each of the next n lines contains an integer, arr[i], where $0 \le i < n$. Sample Case 0 Sample Input 0 4 1 2 3 3 Sample Output 0 2 Explanation 0 The sum of the first two elements, 1+2=3. The value of the last element is 3. Using zero based indexing, arr[2]=3 is the pivot between the two subarrays. The index of the pivot is 2. Sample Case 1 Sample Input 1 3 1 2 1 Sample Output 1 Explanation 1
 - The first and last elements are equal to 1.

 $1 \le arr[i] \le 2 \times 10^4$, where $0 \le i < n$

- Using zero based indexing, arr[1]=2 is the pivot between the two subarrays.
- The index of the pivot is 1.

```
3 ▼ for i in range(n):
        t=int(input())
    a.append(t)
total=sum(a)
 5
6
7
    left=<mark>0</mark>
8 v for i in range(n):
9
         total=total-a[i]
         if left==total:
10 🔻
             print(i)
11
             break
12
13
        left+=a[i]
```

	Input	Expected	Got	
~	4	2	2	~
	1			
	2			
	3			
	3			
~	3	1	1	~
	1			
	2			
	1			
1				

Correct

Output:

For example:					
Input	Result				
5	1	2	3	4	
1					
2					
2					
3					
4					
6	1	2	3		
1					
1					
2					
2					
3					
3					

	Input	Expected	Got	
~	5	1 2 3 4	1 2 3 4	~
	1			
	2			
	2			
	3			
	4			
~	6	1 2 3	1 2 3	~
	1			
	1			
	2			
	2			
	3			
	3			

Correct

Output

```
a.append(n)
a.sort()
print("ITEM to be inserted:",n,sep="")
print("After insertion array is:")

for i in a:
    print(i)
```

	Input	Expected	Got	
~	1	ITEM to be inserted:2	ITEM to be inserted:2	~
	3	After insertion array is:	After insertion array is:	
	4	1	1	
	5	2	2	
	6	3	3	
	7	4	4	
	8	5	5	
	9	6	6	
	10	7	7	
	11	8	8	
	2	9	9	
		10	10	
		11	11	

The first line contains an integer n, the number to factor. The second line contains an integer p, the 1-based index of the factor to return. Sample Case 0 Sample Input 0 10 3 Sample Output 0 5 **Explanation 0** Factoring n = 10 results in $\{1, 2, 5, 10\}$. Return the $p = 3^{rd}$ factor, 5, as the answer. Sample Case 1 Sample Input 1 10 5 **Sample Output 1 Explanation 1** Factoring n = 10 results in {1, 2, 5, 10}. There are only 4 factors and p = 5, therefore 0 is returned as the answer. Sample Case 2 Sample Input 2 1 Sample Output 2 1 **Explanation 2** Factoring n = 1 results in {1}. The p = 1st factor of 1 is returned as the answer.

For example:

9 ▼	else:	Γ
10	<pre>print(l1[p-1])</pre>	

	Input	Expected	Got	
~	10 3	5	5	~
~	10 5	0	0	~
~	1	1	1	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Week6_MCQ

Jump to...

Tuples ►

What is the output of the given below program? t1 = (1,2,3) t2 = (4,5,6) x = t1+t2

-			
	2	F	rror

print(x)

b. (1,2,3,3,2,1)

© c. (1,2,3,4,5,6) ✓

d. (1,2,3)(4,5,6)

Your answer is correct.

The correct answer is: (1,2,3,4,5,6)

4. [1, 4, 0] V

Your answer is correct.

The correct answer is:

[1, 4, 8]

Question ${\bf 3}$

Incorrect

Mark 0.00 out of 1.00

What is the output of the following code

a.
{'rec', True, ('cse', 'ece')}

O b. Error

c. {'rec', 1, ('cse', 'ece')}

d. {'rec', 1, ('cse', 'ece'),True} X

Your answer is incorrect.

The correct answer is: {'rec', 1, ('cse', 'ece')}

C. SynatxError: Different types cannot be used with sets
○ d. {40, '10', 50, 20, 60, 30}
Your answer is correct. The correct answer is: {40, 10, '10', 50, 20, 60, 30}
Question 5
Correct
Mark 1.00 out of 1.00
A python tuple can be created without using any parentheses. (True/False)
○ b. False

Your answer is correct.
The correct answer is:

True

Your answer is correct.

The correct answer is:

(11, 3, 11, 3, 11, 3)

Question ${\bf 7}$

Correct

Mark 1.00 out of 1.00

Find the output of the given Python program?

- a. [(55,33,11)]
- b. [55, 33, 11]

 ✓
- o. (55,33,11)
- od. ([55,33,11])

Your answer is correct.

The correct answer is:

[55, 33, 11]

Question **9**Correct
Mark 1.00 out of 1.00

What will be the output of the below Python code?
t1=(55,12,78,64,25)

a. (12)

t1.pop(12) print(tuple1)

o b. 12

c. (55,78,64,25)

Your answer is correct.

The correct answer is:
sampleSet.discard("ECE")

d. Error
✓

Your answer is correct.

The correct answer is: Error

Error			
Question 11			
Correct			
Mark 1.00 out of 1.00			
What will set1 set2 do?			
If set1={"a","b",3} set2={3,7}			
set2={3,7}			

- \odot a. A new <u>set</u> will be created with the elements of both set1 and set2 \checkmark
- b. Elements of set2 will get appended to set1
- oc. Elements of set1 will get appended to set2
- od. A new set will be created with the unique elements of set1 and set2.

Your answer is correct.

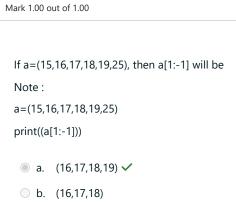
Your answer is correct.
The correct answer is:

The correct answer is:

A new set will be created with the elements of both set1 and set2

tupl1=tupl+tupl

Question **13**Correct



Your answer is correct.

c. (25,19,18,17)

od. Error

The correct answer is: (16,17,18,19)

	ect answer is:
<class 'st<="" th=""><th>r></th></class>	r>
Question 15	
Correct	
Mark 1.00 out	t of 1.00
What is	the output of the following code?
- 1	(40. 00. 00. 40. 50. 40. 70. 00)
	(10, 20, 30, 40, 50, 60, 70, 80) uple[2:5], aTuple[:4], aTuple[3:])
O a. ((30, 40, 50) (10, 20, 30, 40)
O b. ((10, 20, 30, 40) (40, 50, 60, 70, 80)
O c. ((30, 40, 50)(40, 50, 60, 70, 80)
d. ((30, 40, 50) (10, 20, 30, 40) (40, 50, 60, 70, 80) 🗸
Your answ	wer is correct.
	ect answer is:
	0) (10, 20, 30, 40) (40, 50, 60, 70, 80)
Set	
Jump to)

d. <class 'int'>

Your answer is correct.

<u>Dashboard</u> / <u>My courses</u> / <u>PSPP/PUP</u> / <u>Experiments based on Tuples, Sets and its operations</u> / <u>Week7 Coding</u>

Started on	Wednesday, 5 June 2024, 9:26 PM
State	Finished
Completed on	Friday, 7 June 2024, 9:26 PM
Time taken	2 days
Marks	4.00/5.00
Grade	80.00 out of 100.00

```
Question 1
Correct
Mark 1.00 out of 1.00
```

The **DNA sequence** is composed of a series of nucleotides abbreviated as 'A', 'C', 'G', and 'T'.

• For example, "ACGAATTCCG" is a **DNA sequence**.

When studying ${\bf DNA}$, it is useful to identify repeated sequences within the DNA.

Given a string s that represents a **DNA sequence**, return all the **10-letter-long** sequences (substrings) that occur more than once in a DNA molecule. You may return the answer in **any order**.

Example 1:

```
Input: s = "AAAAACCCCCAAAAAACCCCCCAAAAAAGGGTTT"
Output: ["AAAAACCCCC", "CCCCCAAAAA"]
```

Example 2:

```
Input: s = "AAAAAAAAAAA"
Output: ["AAAAAAAAAA"]
```

For example:

Input	Result
AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC

Answer: (penalty regime: 0 %)

```
a=tuple(input())
 1
 2
    b=[]
3 v for i in range(len(a)):
 4
        b.append(a[i])
        if i==9:
5 ▼
 6
            break
    c="".join(b)
7
8
    d=c[::-1]
9 v if c!=d:
10
        print(c)
11
        print(d)
12 v else:
13
        print(c)
```

	Input	Expected	Got	
~	AAAAACCCCCAAAAACCCCCCAAAAAGGGTTT	AAAAACCCCC	AAAAACCCCC	~
		CCCCCAAAAA	CCCCCAAAAA	

	Input	Expected	Got	
~	АААААААААА	АААААААА	АААААААА	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2 Incorrect Mark 0.00 out of 1.00

Write a program to eliminate the common elements in the given 2 arrays and print only the non-repeating elements and the total number of such non-repeating elements.

Input Format:

The first line contains space-separated values, denoting the size of the two arrays in integer format respectively.

The next two lines contain the space-separated integer arrays to be compared.

Sample Input:

5 4

12865

26810

Sample Output:

1 5 10

2

Sample Input:

5 5

12345

12345

Sample Output:

NO SUCH ELEMENTS

For example:

Result
1 5 10
3
NO SUCH ELEMENTS

Answer: (penalty regime: 0 %)

```
1
   s=input()
    a=input()
   b=input()
4 A=a.split()
5 B=b.split()
6 s1=set(A)
7 s2=set(B)
8 x=s1 ^ s2
9 flag=0
10 v for i in x:
       print(i,end=" ")
11
12
       flag=1
13 v if flag==0:
14
        print("No such elements")
15
    print()
   print(len(x))
16
```

	Input	Expected	Got	
×	5 4 1 2 8 6 5 2 6 8 10		5 1 10	×
~	3 3 10 10 10 10 11 12	11 12 2	11 12 2	~

Some hidden test cases failed, too.

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

/

```
Question 3

Correct

Mark 1.00 out of 1.00
```

Given an array of integers nums containing n + 1 integers where each integer is in the range [1, n] inclusive. There is only **one repeated number** in nums, return this repeated number. Solve the problem using <u>set</u>.

Example 1:

```
Input: nums = [1,3,4,2,2]
```

Output: 2

Example 2:

```
Input: nums = [3,1,3,4,2]
```

Output: 3

For example:

Input	Result
1 3 4 4 2	4

Answer: (penalty regime: 0 %)

	Input	Expected	Got	
~	1 3 4 4 2	4		~
			4	
~	1 2 2 3 4 5 6 7	2		~
			2	

Passed all tests! <



Marks for this submission: 1.00/1.00.

Question **4**Correct Mark 1.00 out of 1.00

Coders here is a simple task for you, Given string str. Your task is to check whether it is a binary string or not by using python set.

Examples:

Input: str = "01010101010"

Output: Yes

Input: str = "REC101"

Output: No

For example:

Input	Result
01010101010	Yes
010101 10101	No

Answer: (penalty regime: 0 %)

```
1 |s=input()
 2 flag=0
3 v for i in s:
       if i=="0" or i=="1":
4 ▼
5
           continue
6 ▼
       else:
7
            flag=1
8
9 v if flag==0:
10
       print("Yes")
11 v else:
12
        print("No")
```

	Input	Expected	Got	
~	01010101010	Yes	Yes	~
~	REC123	No	No	~
~	010101 10101	No	No	~

Passed all tests! 🗸

Correct

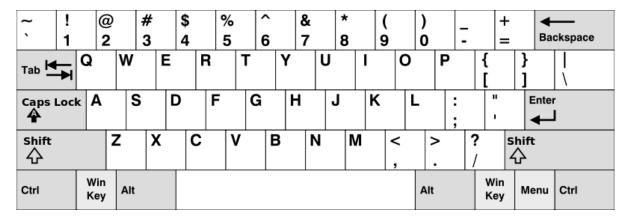
Marks for this submission: 1.00/1.00.

```
Question 5
Correct
Mark 1.00 out of 1.00
```

Given an array of <u>strings</u> words, return the words that can be typed using letters of the alphabet on only one row of American keyboard like the image below.

In the American keyboard:

- the first row consists of the characters "qwertyuiop",
- the second row consists of the characters "asdfghjkl", and
- the third row consists of the characters "zxcvbnm".



Example 1:

```
Input: words = ["Hello","Alaska","Dad","Peace"]
Output: ["Alaska","Dad"]
```

Example 2:

```
Input: words = ["omk"]
Output: []
```

Example 3:

```
Input: words = ["adsdf","sfd"]
Output: ["adsdf","sfd"]
```

For example:

Input	Result
4	Alaska
Hello	Dad
Alaska	
Dad	
Peace	
2	adsfd
adsfd	afd
afd	

Answer: (penalty regime: 0 %)

```
a.append(t)
 7
    x=set("qwertyuiop")
    y=set("asdfghjkl")
z=set("zxcvbnm")
flag=0
8
9
10
11 v for j in a:
         lower=set(j.lower())
12
13 🔻
         if lower <= x or lower <= y or lower <= z:</pre>
14
             print(j)
15
             flag=1
16 v if flag==0:
17 print("No words")
```

	Input	Expected	Got	
~	4 Hello Alaska Dad Peace	Alaska Dad	Alaska Dad	~
~	1 omk	No words	No words	~
~	2 adsfd afd	adsfd afd	adsfd afd	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Week7_MCQ

Jump to...

Dictionary ►

Keys of	<u>dictionary</u> must be
a.	unique ✓
b.	mutable
○ c.	integers
d.	antique
The cor	rect answer is: unique
Question 2	
Correct	
Mark 1.00 c	out of 1.00
clear() r	method is used to delete the <u>dictionary</u> .
a.	True
b.	False ✓

The correct answer is: False

Mark 1.00 out of 1.00
Which of the following function create a <u>dictionary</u> from a sequence of key-value pairs
○ a. convert
○ c. create
○ d. <u>dictionary</u>
The correct answer is: dict
Question 5
Correct
Mark 1.00 out of 1.00
Keys in <u>dictionary</u> are a. antique
■ b. Immutable ✓
○ c. integers
○ d. Mutable

The correct answer is: Immutable

Question **4**Correct

Question 7	
Correct	
Mark 1.00 out of 1.00	

Only values (without keys) can be printed in dictionary?

a. False

b. True

✓

The correct answer is: True

○ c. a,b		
⊚ d. d,e,f ✓		
Your answer is correct.		
The correct answer is:		
d,e,f		
Question 9		
Correct		
Mark 1.00 out of 1.00		
<u>Dictionary</u> is a data type.		
 a. None of the mentioned 		
b. Ordered		
○ c. Mapping ✓		
d. Sequence		
a. sequence		
The correct answer is: Mapping		

O b. c,d,e

Question 11	
Correct	
Mark 1.00 out of 1.00	

Which of the following is feature of <u>Dictionary</u>?

~

- b. <u>Dictionary</u> is mutable.
- oc. Keys must be of an immutable data type.
- Od. Keys are unique within a dictionary.

The correct answer is: All of the mentioned

d.	✓	
{'b': [2, 3, 4], 'a': 1}	}	
Your answer is correct.		
The correct answer is:		
{'b': [2, 3, 4], 'a': 1}		
Question 13		
Correct		
Mark 1.00 out of 1.00		

There is no index value in <u>dictionary</u> like we have in <u>List</u>.(T/F)

- a. True
- o b. False

The correct answer is: True

c. {'b': [2], 'a': [3]}

In Python, Dictionaries are immutable	
Select one:	
○ True	
False ✓	
The correct answer is 'False'.	
→ Dictionary	
Jump to	

Week8_Coding ►

Question **15**Correct

Mark 1.00 out of 1.00

alphabetically smaller, we print it. Use <u>dictionary</u> to solve the above problem
Sample Input:
10
John
John
Johny
Jamie
Jamie
Johny
Jack
Johny
Johny
Jackie
Sample Output:
Johny
Answer: (penalty regime: 0 %)

- 1 |n=int(input().strip())

	Ι.			
	Input	Expected	Got	
~	10	Johny	Johny	~
	John			
	John			
	Johny			
	Jamie			
	Jamie			
	Johny			
	Jack			
	Johny			
	Johny			
	Jackie			
~	6	Ida	Ida	~
	Ida			
	Ida			
	Ida			
	Kiruba			
	Kiruba			
	Kiruba			

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

10 Q and Z

Write a program that computes and displays the Scrabble^m score for a word. Create a <u>dictionary</u> that maps from letters to point values. Then use the <u>dictionary</u> to compute the score.

A Scrabble™ board includes some squares that multiply the value of a letter or the value of an entire word. We will ignore these squares in this exercise.

Sample Input

REC

Sample Output

REC is worth 5 points.

For example:

Input	Result			
REC	REC is worth 5 points.			

Answer: (penalty regime: 0 %)

```
1 ▼ scrabble_points={
          'A': 1, 'E': 1, 'I': 1, 'L': 1, 'N': 1, 'O': 1, 'R': 1, 'S': 1, 'T': 1, 'U': 1, 'D': 2, 'G': 2, 'B': 3, 'C': 3, 'M': 3,'P': 3, 'F': 4, 'H': 4, 'V': 4, 'W': 4, 'Y': 4,
 2
 3
 4
 5
          'K': 5,
 6
 7
          'J': 8, 'X': 8,
 8
          'Q': 10, 'Z': 10,
 9
     word=input().strip().upper()
10
    score=0
11
12 ▼ for letter in word:
          score=score+scrabble_points.get(letter,0)
13
14 print(f"{word} is worth {score} points.")
```

Output: ["banana"]

Constraints:

1 <= s1.length, s2.length <= 200

s1 and s2 consist of lowercase English letters and spaces.

s1 and s2 do not have leading or trailing spaces.

All the words in s1 and s2 are separated by a single space.

Note:

Use <u>dictionary</u> to solve the problem

For example:

Input	Result
this apple is sweet this apple is sour	sweet sour

Answer: (penalty regime: 0 %)

```
1 |a=input()
 2
   b=input()
 3 A=a.split()
4 B=b.split()
5 s=[]
6 v for i in A:
      if A not in B:
7 🔻
8
           s.append(i)
9 v for i in B:
10 🔻
     if B not in A:
           s.append(i)
11
12 v for i in s:
13
       c=s.count(i)
14 🔻
       if c==1:
15
           print(i,end=" ")
```

Gfg 6 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

For example:

Input	Result
2	Gfg 17
Gfg 6 7 4	Best 18
Best 7 6 5	

Answer: (penalty regime: 0 %)

```
James 67 89 56
Lalith 89 45 45
Ram 89 89 89
Sita 70 70 70
Sample Output:
Ram
James Ram
Lalith
```

Lalith

For example:

Input	Result
4	Ram
James 67 89 56	James Ram
Lalith 89 45 45	Lalith
Ram 89 89 89	Lalith
Sita 70 70 70	

Answer: (penalty regime: 0 %)

```
1 n = int(input())
 2 students = {}
 3 * for _ in range(n):
4
         name, test, assignment, lab = input().split()
5
         students[name] = {'test': int(test), 'assignment': int(assignment), 'lab': int(lab)}
6
    averages = {name: sum(info.values()) / 3 for name, info in students.items()}
8
    a = max(averages.values())
9
    A = sorted([name for name, avg in averages.items() if avg == a])
10
   b = max((info['assignment'] for info in students.values()))

- conted([name for name info in students items() if info['assignment'] -- h])
11
```

~	3	Shadhana	Shadhana	~	
	Raja 95 67 90	Shadhana	Shadhana		
	Aarav 89 90 90	Aarav Raja	Aarav Raja		
	Shadhana 95 95 91	Raja	Raja		

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Week8_MCQ

Jump to...

Functions ►

b.c.	print(pow(2.3, 3.2)) print(pow(2, 3, 2)) print(pow(2, 3)) None of the mentioned ✓
The corn	rect answer is: None of the mentioned
Question 2	
Correct	
⁄lark 1.00 o	ut of 1.00
6. Whicl	n of the following is not the built-in function?
○ a.	input()
b.	dictionary() ✓
O c.	print()
O d.	tuple()
The cor	rect answer is: <u>dictionary(</u>)

Choose the incorrect statement.

The pro	ocess of dividing a computer program into separate independent blocks of code with specific functionalities is known as
me pre	ecos of dividing a compater program into separate independent slocks of code with specific functionalities is known as
a.	Modular Programming ✓
O b.	Step Programming
O c.	More Programming
O d.	Programming
The cou	rect answer is: Modular Programming
THE COI	rect answer is. Modular Frogramming
Question 5	
ncorrect	
Mark 0.00	out of 1.00
	out of 1.00
Mark 0.00 d	out of 1.00 of the following statement is a function call?
Mark 0.00 o	of the following statement is a function call?
Which	of the following statement is a function call?
Which a. b.	of the following statement is a function call? def sum function sum
Which a. b.	of the following statement is a function call?

Question **4**Correct

Mark 1.00 out of 1.00

Question 7	
Incorrect	
Mark 0.00 out of 1.00	

The part of the program where a variable is accessible is known as the ____ of that variable

a. module X

Ob. scope

oc. part

d. none of the mentioned

The correct answer is: scope

∪ d.	(11-1)"(11-2)	
b.	n*(n-1) ×	
О с.	(n * factorial(n - 1))	
O d.	fact(n)*fact(n-1)	
		•
Your ans	swer is incorrect.	
The corr	rect answer is:	
	orial(n - 1))	
Question 9		
Correct		
Mark 1.00 ou	ut of 1.00	
Which k	keyword is used for defining a function?	
О а.	Define	
O b.	Function	

c. Fun

d. def
✓

Your answer is correct.

The correct answer is:

def

Question 11

Correct

Mark 1.00 out of 1.00

Which of the following function headers is correct?

- \bigcirc b. def fun(a = 2, b = 3, c)
- \circ c. def fun(a, b, c = 3, d)
- \bigcirc d. def fun(a = 2, b, c = 3)

Your answer is correct.

The correct answer is: def fun(a, b = 2, c = 3)

_ ~.	
O c.	'Hello World!' 'Hello World!'
O d.	Hello Hello
Your an	swer is correct.
	rect answer is:
Hello W Hello W	
Tieno vi	
Question 1	3
Correct	
Mark 1.00 c	out of 1.00
Which l	keyword is used to begin the definition of a function?
○ a.	Define
O b.	
	def ✓
O d.	DEF
The cor	rect answer is: def

Python function always returns a value
Select one:
True ✓
○ False
The correct answer is 'True'.
▼ Functions
Jump to

Question **15**Correct

Mark 1.00 out of 1.00

Week9_Coding ►

Print an integer representing the discount value for the given total bill amount.

Example Input

578

Output

12

For example:

Test	Result
<pre>print(christmasDiscount(578))</pre>	12

Answer: (penalty regime: 0 %)

Reset answer

```
def christmasDiscount(n):
    def is_prime(digit):
        if digit in {2,3,5,7}:
            return "True"
        s_n=str(n)
        discount=sum(int(digit) for digit in s_n if is_prime(int(digit)))
    return discount
```

	Test	Expected	Got		
~	<pre>print(christmasDiscount(578))</pre>	12	12	~	

Explanation:

Here, sum of even digits is 4 + 3 = 7

sum of odd digits is 1 + 5 = 6.

Difference is 1.

Note that we are always taking absolute difference

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ def differenceSum(n):
        1=[]
2
3
        odd=[]
4
        even=[]
 5
        n=str(n)
 6 🔻
        for i in n:
7
            1.append(int(i))
8 🔻
        for i in range(1,len(1)+1):
9 •
            if i%2==0:
10
                even.append(l[i-1])
11 •
            else:
                odd.append(l[i-1])
12
        odds,evens=sum(odd),sum(even)
13
        return evens-odds
14
```

	Test	Expected	Got	
~	<pre>print(differenceSum(1453))</pre>	1	1	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

Yes

Explanation

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:

13

Output:

No

Explanation

The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.

For example:

	Test	Result
	<pre>print(abundant(12))</pre>	Yes
Ì	print(abundant(13))	No

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ def abundant(n):
2
       sum=0
       for i in range(1,n):
3 •
           if n%i==0:
4
5
               sum=sum+i
6
       if sum>n:
7
           return "Yes"
8 •
       else:
           return "No"
```

//

lest	Kesult
<pre>print(automorphic(5))</pre>	Automorphic

Answer: (penalty regime: 0 %)

Reset answer

```
1 ▼ def automorphic(n):
2 🔻
       if n<0:
3
          return"Invalid input"
       s=n*n
5
       num=str(n)
6
       s=str(s)
7 ▼
       if s.endswith(num):
8
           return "Automorphic"
9 🔻
       else:
10
           return "Not Automorphic"
```

	Test	Expected	Got	
~	<pre>print(automorphic(5))</pre>	Automorphic	Automorphic	~
~	<pre>print(automorphic(7))</pre>	Not Automorphic	Not Automorphic	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

IKUE

Example Input:

1595

Output:

FALSE

For example:

Test	Result
<pre>print(productDigits(1256))</pre>	True
<pre>print(productDigits(1595))</pre>	False

Answer: (penalty regime: 0 %)

Reset answer

```
3
       sum_odd=0
4
       product_even=1
5 🔻
       for i,digit in enumerate(num_str):
           digit=int(digit)
6
7 🔻
           if n%2==0:
8
              sum_odd+=digit
9 •
           else:
10
              product_even*=digit
11 🔻
       if sum_odd==0:
          return False
12
13
       return product_even//sum_odd==0
```

	y merge sort algorithm is used to sort the following elements in ascending order. ,150,80,90,40,400,300,120,70
What is	the order of these elements after second pass of the merge sort algorithm?
○ a.	40,70,80,90,120,150,200,300,400,470
O b.	200,470,80,150,40,90,300,400,70,120
c.	80,150,200,470,40,90,300,400,70,120 🗸
O d.	40,80,90,150,200,300,400,470,70,120
Your ans	swer is correct.
	rect answer is:
80,150,2	200,470,40,90,300,400,70,120
Question 2 Correct	
Mark 1.00 o	ut of 1.00
is	putting an element in the appropriate place in a sorted <u>list</u> yields a larger sorted order <u>list</u> .
a.	Insertion ✓
O b.	Extraction
O c.	Selection
O d.	Distribution
Your ans	swer is correct.
	rect answer is:
Insertio	n

Binary

The correct answer is: Insertion sort

uestion 4
rrect
ark 1.00 out of 1.00
Very slow way of <u>sorting</u> is
a. Bubble sort
○ b. Quick sort
c. Heap sort
◎ d. Insertion sort ✓
Your answer is correct.

Question 6		
Correct		
Mark 1.00 out of 1.00		

Algorithm design technique used in merge sort algorithm is

a. Divide and conquer

O b. Dynamic programming

o. Greedy method

d. Backtracking

The correct answer is:

90 and 99

Your answer is correct.

The correct answer is: Divide and conquer

Question 8
Correct
Mark 1.00 out of 1.00

The process of placing or rearranging a collection of elements into a particular order is known as

a. Rearranging

The correct answer is.

Complexity

oc. <u>Searching</u>

od. Merging

Your answer is correct.

The correct answer is: Sorting

<u>Searching</u>

Question 10					
Correct					
Mark 1.00 out of 1.00					
Which of the following is not an in-place <u>sorting</u> algorithm?					
a. Selection sort					
○ b. Heap sort					
○ c. Quick sort					
					
Your answer is correct.					
The correct answer is:					
Merge sort					

Your answer is correct.

The correct answer is: Bubble

Question 12	
Correct	
Mark 1.00 out of 1.00	

Which of the following is not a limitation of binary search algorithm?

- a. Must use a sorted array
- $^{\odot}$ b. Binary search algorithm is not efficient when the data elements more than 1500 \checkmark
- oc. There must be a mechanism to access middle element directly
- Od. Requirement of sorted array is expensive when a lot of insertion and deletions are needed

Your answer is correct.

The correct answer is:

Binary search algorithm is not efficient when the data elements more than 1500

Question 14
Correct
Mark 1.00 out of 1.00
Given an array arr = {45,77,89,90,94,99,100} and key = 100; What are the mid values(corresponding array elements) generated in the first and second iterations?
■ a. 90 and 99 ✓
b. 90 and 100
oc. 89 and 94
O d. 94 and 99
Your answer is correct.

Your answer is correct.
The correct answer is:

The correct answer is:

90 and 99

There must be a mechanism to delete and/or insert elements in the $\underline{\text{list}}$

A $\underline{\text{sorting}}$ algorithm is stable if it preserves the order of duplicate keys

◄ Searching

Jump to...

Week10_Coding ►

```
3 4 8 7 1 2
5
4 5 2 3 1
```

Answer: (penalty regime: 0 %)

```
n=int(input())
2 array=input().split()
3 v for i in range(n):
     array[i]=int(array[i])
5 ▼ for i in range(n):
 6
        swapped=False
        for j in range(0,n -i -1):
 7 ▼
 8 🔻
           if array[j]>array[j+1]:
9
                array[j],array[j+1]=array[j+1],array[j]
10
                swapped=True
11 🔻
      if not swapped:
12
            break
13 v for i in range(n):
     print(array[i],end=" ")
14
15 print()
```

Check

	Input	Expected	Got	
~	6 3 4 8 7 1 2	1 2 3 4 7 8	1 2 3 4 7 8	~
~	6 9 18 1 3 4 6	1 3 4 6 9 18	1 3 4 6 9 18	~
~	5 4 5 2 3 1	1 2 3 4 5	1 2 3 4 5	~

Passed all tests! ✓