

Rajalakshmi Engineering College

An autonomous institution

PYTHON MOODLE CODES:

WEEK 1

[CS23231]

G. Meenakshi

231501097

AIML-B

First year

New Tab

Week1_Coding: Attempt review

Exceptions in try blocks

118.185.187.137/moodle/mod/quiz/review.php?attempt=83551&cmid=1055

MEENAKSHI G 2023-AIIML-B

1

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6

Show one page at a time

Finish review

State: Finished

Completed on: Thursday, 21 March 2024, 9:00 AM

Time taken: 22 mins 42 secs

Marks: 6.00/6.00

Grade: 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

Write a program to convert strings to an integer and float and display its type.

Sample Input:
10
10.9
Sample Output:
10,<class 'int'>
10.9,<class 'float'>

For example:

Input	Result
10	10,<class 'int'>
10.9	10.9,<class 'float'>

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=float(input())
3 print(a,type(a),sep=",")
4 print(f"%s,%s,type(b),sep=",")
```

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ENG IN 00:28 10-06-2024

New Tab

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118.185.187.137/moodle/mod/quiz/review.php?attempt=83551&cmid=1055

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Input

Expected

Got

✓ 10 10,<class 'int'> 10,<class 'int'> ✓

10.9 10.9,<class 'float'> 10.9,<class 'float'> ✓

✓ 12 12,<class 'int'> 12,<class 'int'> ✓

12.5 12.5,<class 'float'> 12.5,<class 'float'> ✓

✓ 89 89,<class 'int'> 89,<class 'int'> ✓

7.56 7.6,<class 'float'> 7.6,<class 'float'> ✓

✓ 55000 55000,<class 'int'> 55000,<class 'int'> ✓

56.2 56.2,<class 'float'> 56.2,<class 'float'> ✓

✓ 2541 2541,<class 'int'> 2541,<class 'int'> ✓

2541.679 2541.7,<class 'float'> 2541.7,<class 'float'> ✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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ENG IN 00:30 10-06-2024

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Correct
Marks for this submission: 1.00/1.00.

Question 2
Correct
Mark 1.00 out of 1.00
Flag question

Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of his basic salary, and his house rent allowance is 20% of his basic salary. Write a program to calculate his gross salary.

Sample Input:
10000
Sample Output:
16000

For example:

Input	Result
10000	16000

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=((60/100)*a)+a
3 print(int(b))
```

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Correct
Marks for this submission: 1.00/1.00.

Passed all tests! ✓

	Input	Expected	Got	
✓	10000	16000	16000	✓
✓	20000	32000	32000	✓
✓	28000	44800	44800	✓
✓	5000	8000	8000	✓

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Marks for this submission: 1.00/1.00.

Question 3
Correct
Mark 1.00 out of 1.00
Flag question

Write a simple python program to find the square root of a given floating point number. The output should be displayed with 3 decimal places.

Sample Input:
8.00

Sample Output:
2.828

For example:

Input	Result
14.00	3.742

Answer: (penalty regime: 0 %)

```
1 import math
2 a=float(input())
3 b=math.sqrt(a)
4 print(f'%.3f'%b)
```

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Week1_Coding: Attempt review

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MEENAKSHI G 2023-AIML-B M2

```
4 print(f'%.3f'%b)
```

	Input	Expected	Got	
✓	8.00	2.828	2.828	✓
✓	14.00	3.742	3.742	✓
✓	4.00	2.000	2.000	✓
✓	487	22.068	22.068	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 4

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For Women

Question 4
Correct
Mark 1.00 out of 1.00
Flag question

Alfred buys an old scooter for Rs. X and spends Rs. Y on its repairs. If he sells the scooter for Rs. Z ($Z > X + Y$). Write a program to help Alfred to find his gain percent. Get all the above-mentioned values through the keyboard and find the gain percent.

Input Format:

The first line contains the Rs X
The second line contains Rs Y
The third line contains Rs Z

Sample Input:

```
10000
250
15000
```

Sample Output:

```
46.34 is the gain percent.
```

For example:

Input	Result
45500 500 60000	30.43 is the gain percent.

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 c=int(input())
4 d=(c-(a+b))/(a+b)*100
5 print(f'%.2f'%d,"is the gain percent.")
```

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10-06-2024

New Tab Week1_Coding: Attempt review Exceptions in try blocks

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Input	Expected	Got	
✓ 10000 250 15000	46.34 is the gain percent.	46.34 is the gain percent.	✓
✓ 45500 500 60000	30.43 is the gain percent.	30.43 is the gain percent.	✓
✓ 5000 0 7000	40.00 is the gain percent.	40.00 is the gain percent.	✓
✓ 12500 5000 18000	2.86 is the gain percent.	2.86 is the gain percent.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Search

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IN

00:30
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New Tab

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Question 5

Correct

Mark 1.00 out of 1.00

Flag question

In many jurisdictions, a small deposit is added to drink containers to encourage people to recycle them. In one particular jurisdiction, drink containers holding one liter or less have a \$0.10 deposit and drink containers holding more than one liter have a \$0.25 deposit. Write a program that reads the number of containers of each size (less and more) from the user. Your program should continue by computing and displaying the refund that will be received for returning those containers. Format the output so that it includes a dollar sign and always displays exactly two decimal places.

Sample Input

```
10
20
```

Sample Output

Your total refund will be \$6.00.

For example:

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

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=int(input())
3 c=a*0.1
4 d=b*0.25
5 e=c+d
6 print("Your total refund will be ",f'%.2f'%e,sep='$',end='')
7 print("\n")
```

New Tab

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Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Justin is a carpenter who works on an hourly basis. He works in a company where he is paid Rs 50 for an hour on weekdays and Rs 80 for an hour on weekends. He works

	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.	✓
✓	76 38	Your total refund will be \$17.10.	Your total refund will be \$17.10.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 6
Correct
Mark: 1.00 out of 1.00
[Flag question](#)

Justin is a carpenter who works on an hourly basis. He works in a company where he is paid Rs 50 for an hour on weekdays and Rs 80 for an hour on weekends. He works 10 hrs more on weekdays than weekends. If the salary paid for him is given, write a program to find the number of hours he has worked on weekdays and weekends.

Hint:
If the final result(hrs) are in -ve convert that to +ve using abs() function
The `abs()` function returns the absolute value of the given number.

```
number = -20
absolute_number = abs(number)
print(absolute_number)
# Output: 20
```

Sample Input:
450

Sample Output:
weekdays 10.38
weekend 0.38

For example:

Input	Result
450	weekdays 10.38 weekend 0.38

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=(a-500)/130
3 wd=abs(b)+10
4 we=abs(b)
5 print("weekdays",f"% .2f"%wd)
6 print("weekend",f"% .2f"%we)
```

Input	Expected	Got
✓ 450	weekdays 10.38 weekend 0.38	weekdays 10.38 weekend 0.38
✓ 500	weekdays 10.00 weekend 0.00	weekdays 10.00 weekend 0.00

Answer: (penalty regime: 0 %)

```
1 a=int(input())
2 b=(a-500)/130
3 wd=abs(b)+10
4 we=abs(b)
5 print("weekdays",f"% .2f"%wd)
6 print("weekend",f"% .2f"%we)
```

Input	Expected	Got
✓ 450	weekdays 10.38 weekend 0.38	weekdays 10.38 weekend 0.38
✓ 500	weekdays 10.00 weekend 0.00	weekdays 10.00 weekend 0.00
✓ 1000	weekdays 20.00 weekend 0.00	weekdays 20.00 weekend 0.00
✓ 5700	weekdays 50.00 weekend 0.00	weekdays 50.00 weekend 0.00

Passed all tests! ✓

Correct
Marks for this submission: 1.00/1.00