${\bf 01}$  - Introduction to Python-Variables-Data types

Input/Output-Formatting

Ex. No.		: 1	ι	Date:
Registe	r No.:		Name	E
Conver	ting Ir	nput String	zs.	
Write a	progr	am to con	vert strings to an integer	and float and display its type.
Sample	Input	:		
10				
10.9				
Sample	Outp	ut:		
10, <cla< td=""><td>ss 'int'</td><td>&gt;</td><td></td><td></td></cla<>	ss 'int'	>		
10.9, <c< td=""><td>lass 'fl</td><td>oat'&gt;</td><td></td><td></td></c<>	lass 'fl	oat'>		
For exa	mple:			
Input	Resu	lt		
10	10,<0	class 'int'>	si .	
10.9	10.9,	<class 'floa<="" td=""><td>at'&gt;</td><td></td></class>	at'>	
A=inpu	t()			
B=inpu	tO			
C=int(a	1)			
D=float	(b)			
E=roun	d(d,1)			

 ${\rm Print}(a, {\tt type}@, {\tt sep=","})$ 

Print(e,type(d),sep=",")

Ex. No.		<b>:</b> 1	1.2	Date:	
Register	r No.:	e C		Name:	
Gross S	alary				
	and h				rness allowance is 40% of his basic . Write a program to calculate his
Sample	Inpu	t:			
10000					
Sample	Outr	ut:			
16000					
For exa	mple:	:			
Input 10000	Res				
A=int(ir	iput(	))			
B=(40/1	00)*a	Ü			
C=(20/1	00)*a	t:			

Print(int(a+b+c))

Ex. No.	:	1.3	Date:	
Register No.	:		Name:	

## Square Root

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

Import math

A=float(input())

B=math.sqrt(a)

Print("%.3f"%b)

Ex. No.	:	1.4	Date:
Register	No.:		Name:
Gain pe	rcent		<u>-</u>
Z (Z>X+	Y). Write	e a program to h	X and spends Rs. Y on its repairs. If he sells the scooter for Rs elp Alfred to find his gain percent. Get all the above-mentioned find the gain percent.
Input Fo	ormat:		
The firs	t line con	ntains the Rs X	
The seco	ond line o	contains Rs Y	
The thir	d line co	ntains Rs Z	
Sample	Input:		
10000			
250			
15000			
Sample	Output:		
46.34 is	the gain	percent.	
For exa	nple:		
Input	Result		
45500	30.43 is	the gain percen	t.
500			
60000			

A=int(input())

B = int(input())

C=int(input())

A+=b

D=c-a

E=d\*100/a

Print(format(e,".2f"),"is the gain percent.")

Ex. No.	1.5	Date:

Register No.: Name:

## Deposits

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	

A=int(input())

B=int(input())

C=0.10\*a+0.25\*b

Print("Your total refund will be \$",format(c,".2f"),".",sep="",)

Ex. No.	:	1.6	Date:
Register No.	:		Name:
Carpenter			
50 for an hou weekdays th	ır on w an wee	eekdays a kends. If	cks on an hourly basis. He works in a company where he is paid Rend Rs 80 for an hour on weekends. He works 10 hrs more on the salary paid for him is given, write a program to find the ed on weekdays and weekends.
Hint:			
If the final r	esult(h	ŗș) are in	ye convert that to +ye using abs() function
The abs() fur	etion i	returns th	e absolute value of the given number.
number = -20	)		
absolute_nu	nber =	abs(numl	per)
nrint(absolute 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

Ts=int(input())

Y=(ts-500)/130

If(y<0):

Y=abs(y)

X=10+y

Print("weekdays %.2f"%x)

Print(``weekend %.2f'`%y)