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PYTHON PROGRAMMING

LAB1

1. Print "Python Programming"

Double-click (or enter) to edit

```
print("Python Programming") #print() is used for printing
#OUTPUT
```

```
Python Programming
```

2. Print “Python Programming” with each character on separate lines

```
print("P","Y","T","H","O","N","","P","R","O","G","R","A","M","M","I","N","G", sep="\n") #
#OUTPUT
```

```
P
Y
T
H
O
N

P
R
O
G
R
A
M
M
I
N
G
```

3. Print Your Name On screen.

```
print("Name- Jatan sahu")
#OUTPUT
```

```
Name- Jatan sahu
```

4. Print Address on screen.

```
print("Address- Gandhinagar")
#OUTPUT
```

```
Address- Gandhinagar
```

5. Enter the value of an integer variable and print it on screen.

```
value =2
print("value :", value,"value type:",type(value)) #type() is used for defining data type
#OUTPUT
```

```
value : 2 value type: <class 'int'>
```

6. Enter the value of an float variable and print it on screen.

```
a= 2.2
print(a,type(a))
#OUTPUT
```

```
2.2 <class 'float'>
```

7. Enter the value of an string variable and print it on screen.

```
b = "anystring"
print(b,type(b))
#OUTPUT
```

```
anystring <class 'str'>
```

8. Input two numbers and prints its square and cube.

```
a=int(input("Enter 1st number"))
b=int(input("Enter 2nd number"))
print("1st number:",a)
print("2nd number:",b)
c= a**2 #Double * is used for powering
```

```
d=a**3
e=b**2
f=b**3
print("Square of 1st number:",c)
print("Cube of 1st number:",d)
print("Square of 1st number:",e)
print("Cube of 1st number:",f)
#OUTPUT
```

```
Enter 1st number2
Enter 2nd number3
1st number: 2
2nd number: 3
Square of 1st number: 4
Cube of 1st number: 8
Square of 1st number: 9
Cube of 1st number: 27
```

9. Input two numbers and prints its Addition, Subtraction, Multiplication, and Division.

```
a=int(input("Enter 1st number"))
b=int(input("Enter 2nd number"))
print("1st number:",a)
print("2nd number:",b)
print("Addition: " ,a+b )
print("Substraction: " ,a-b )
print("Multiplication: ", a*b )
print("Division: ", a/b )
#OUTPUT
```

```
Enter 1st number2
Enter 2nd number3
1st number: 2
2nd number: 3
Addition: 5
Substraction: -1
Multiplication: 6
Division: 0.6666666666666666
```

10. Verify the formula l=(c+d)*(g+h).

```
c=2
d=4
g=5
h=7
l=(c+d)*(g+h)
print(l)
print(eval(input("Enter the formula for verify"))) #Used for evaluting formula
```

```
#OUTPUT
```



```
72
Enter the formula for verify(c+d)*(g+h)
72
```

11. Verify the formula x=((k-4)*(a*4))/100

```
k=2
a=3
x=((k-4)*(a*4))/100
print("Value of equation is :" ,x)
print(eval(input("Enter the eqution for verification: ")))
#OUTPUT
```

```
Value of equation is : -0.24
Enter the eqution for verification: ((k-4)*(a*4))/100
-0.24
```

12. Verify the formula s=((4*a+c)-2*a*b)/100

```
a=2
c=4
b=5
s=((4*a+c)-2*a*b)/100
print("Value of equation is :",s)
print(eval(input("Enter the eqution for verification: ")))
#OUTPUT
```

```
Value of equation is : -0.08
Enter the eqution for verification: ((4*a+c)-2*a*b)/100
-0.08
```

13. Verify the formula a=p*(1+(r/100)/n)-p

```
p=2
r=3
n=5
a=p*(1+(r/100)/n)-p
print("Value of equation is :",a)

print(eval(input("Enter the eqution for verification: ")))
#OUTPUT
```

```
Value of equation is : 0.01200000000000001
Enter the eqution for verification: p*(1+(r/100)/n)-p
```

```
0.01200000000000001
```


14. Verify the formula t=((v+s)+(l-m)*l)

```
v=2
s=4
l=5
m=6
t=((v+s)+(l-m)*l)
print("Value of equation is :",t)

print(eval(input("Enter the eqution for verification: ")))
#OUTPUT
```

```
Value of equation is : 1
Enter the eqution for verification: ((v+s)+(l-m)*l)
1
```

15. Calculate the area of circle.

```
radius=3
pi=3.14
print("The area of circle is :",pi*radius*radius)
#OUTPUT
```

```
The area of circle is : 28.259999999999998
```

16. Calculate the area of Triangle.

```
base= 3
height =4
print("The area of Triangle :",1/2*base * height )
#OUTPUT
```

```
The area of Triangle : 6.0
```

17. Verify the formula c=(a+b)*(a+b)

```
a=2
b=3
c=(a+b)*(a+b)
print("Value of equation is :",c)

print(eval(input("Enter the eqution for verification: ")))
#OUTPUT
```

```
Value of equation is : 25
Enter the eqution for verification: (a+b)*(a+b)
25
```


18. Write a program to count the simple interest.

```
p=int(input("Enter Principle amount :"))
r=int(input("Enter rate"))
t=int(input("Enter time period in years"))
c=(p*r*t)/100
print("Simple interest is : ",c)
#OUTPUT
```

```
Enter Principle amount :1000
Enter rate10
Enter time period in years5
Simple interest is : 500.0
```

19. Input a Rupees and prints its value converted into Dollar.

```
r=int(input("Enter amount in Rupees : "))
a=r/80 #dollar rate is 80
print("Converted amount in Dollars is : ",a)
#OUTPUT
```

```
Enter amount in Rupees : 4500
Converted amount in Dollars is : 56.25
```

20. Input a Number of Chairs and its Total Cost and Prints the Cost of Each chair.

```
a=int(input("Enter the number of chairs: "))
t=int(input("Enter total cost :"))
print("Cost of each chairs : ",t/a)
#OUTPUT
```

```
Enter the number of chairs: 10
Enter total cost :5400
Cost of each chairs : 540.0
```

21. Print the message :

```
print("HELLO"," I am a student at","\t DAIICT","D-Dhirubhai"," A-Ambani", "\t
I-Institute","\t\t Of","\t I-Information","\t\t And"," C-Communication", # \n is used for
next line and \t is used for a tab
 #OUTPUT
```

```
HELLO
 I am a student at
         DAIICT
```



```
D-Dhirubhai
 A-Ambani
         I-Institute
                 Of
         I-Information
                 And
 C-Communication
T-Technology
```