

BASIC PYTHON PROGRAMS

1]. Python Program to print all prime number in given interval.



Code:

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NOTES GALLERY (TELEGRAM).

```
start = 11
```

```
end = 75
```

```
Print("prime numbers between ", start, "and",  
      end, "are:")
```

```
for (i in range (start, end + 1)):
```

```
    if i > 1:
```

```
        for j in range (2, i):
```

```
            if (i % j == 0):
```

```
                break
```

```
        else
```

```
            print(i)
```

Output:

Prime numbers between 11 and 75 are :

11, 13, 17, 19, 23, 29, 31, 37, 41, 43
47, 59, 61, 67, 71, 73

2]. Python programme to print square of given number :



Code:

```
num = int(input("enter number: "))
```

```
square = n * n
```

```
print("Square is : ", square)
```

Output:

enter number : 10

square is : 100

3]. Python program to print table of given number:



Code:

```
n = int(input("enter the number to print table  
for: "))  
for i in range(1, 11):  
    print(i * n)
```

Output: enter number to print table for: 7.

7

14

21

28

35

42

49

56

63

70.

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4]. Python Program to add two numbers:



Code:

```
num1 = 20
```

```
num2 = 17.5
```

```
Sum = num1 + num2
```

```
print(The sum of {0} and {1} is {2}:
```

```
format(num1, num2, sum))
```

Output:

The sum of 20 and 17.5 is 37.5

5. ✓

Python program to print calander

Code :

importing calander module

import calander

yy = 2022 # year

mm = 11 # month

displaying calander

print(calander, month (yy, mm))

Output :

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Nov 2022

Mon	Tue	Wed	Thu	Fri	Sat	Sun.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

6. ✓

Python program to swap two numbers:

Code :

x = 5

y = 10

Swapping of number using third variable

temp = x

x = y

y = temp

print('value of x after swapping: {}'.format(x))

print('value of y after swaping: {}'.format(y))

Output :

Value of x after swapping : 10

value of y after swapping : 5

7. Python program to find factorial of number :

Code:

```
num = 7
fact = 1
for i in range(1, num + 1):
    fact = fact * i
print("factorial is : {}".format(fact))
```

Output:

Factorial is : 5040.

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8. Python program to convert decimal to other number system.

Code:

```
dec = 344
print("The decimal value of", dec, "is :")
print(bin(dec), "in binary.")
print(Oct(dec), "in octal.")
print(hex(dec), "in hexadecimal.")
```

Output:

The decimal value of 344 is :

0b101011000 in binary

00530 in Octal

0x158 in hexadecimal.

9. Python program to print a * pattern.

Code:

```
rows = int(input("enter number of rows:"))
for i in range(rows):
    for j in range(i + 1):
        print("*", end = " ")
    print("\n")
```

19. Python program to find LCM:



Code:

```
def compute_lcm(x, y):  
    if x > y:  
        greater = x  
    else:  
        greater = y  
    while(True):  
        if((greater % x == 0) and (greater % y == 0)):  
            lcm = greater  
            break  
    return lcm
```

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num 1 = 54

num 2 = 24

print("The L.C.M. is", compute_lcm(num1, num2))

11. Python program to add two matrices:



Code:

```
x =  $\begin{bmatrix} 12 & 7 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$ 
```

```
y =  $\begin{bmatrix} 5 & 8 & 1 \\ 6 & 7 & 3 \\ 4 & 5 & 9 \end{bmatrix}$ 
```

```
for i in range(len(x)):  
    for j in range(len(y)):  
        result[i][j] = x[i][j] + y[i][j].
```

```
for r in result:
```

```
    print(r)
```



→ Output:

[17, 5, 4]

[10, 12, 9]

[11, 13, 18]

12. Python program to find sum array:



Code:

```
def_sum(arr):
```

```
    sum = 0
```

```
    for i in arr:
```

```
        sum = sum + i
```

```
    return (sum)
```

```
arr = []
```

```
arr = [12, 3, 4, 15]
```

```
n = len(arr)
```

```
ans = _sum(arr)
```

```
print('Sum of the array is : ans')
```

Output:

Sum of ARRAY is 24.

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13. Python program to find area of circle:



Code:

```
def findarea(r):
```

```
    PI = 3.142
```

```
    return PI * (r * r):
```

```
print("AREA is %.6f" % findarea(5)):
```