BASIC PYTHON PROGRAMS

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

✓ Code:

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```
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 programe 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.

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:

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.

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
num 1 = 54
num 2 = 24
print ("The L.C.M. is", compute_lcm(num1.num 2))
```


11. ✓ **Python program to add two matrices:**

Code:

```
x = [[12 , 7 , 3],
     [4 , 5 , 6],
     [7 , 8 , 9]]

y = [[5 , 8 , 1 ],
     [6 , 7 , 3],
     [4 , 5, 9 ]]

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.

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)):
```