

Experiment No. 1

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Roll No. : 32

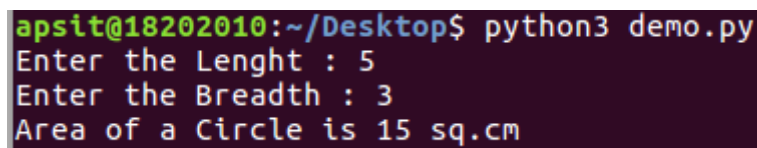
Subject : OSTL

Codes ::

1)

```
lenght = int(input("Enter the Lenght : "))
breadth = int(input("Enter the Breadth : "))
area = lenght * breadth
print(f"Area of a Circle is",area,"sq.cm")
```

Output ::

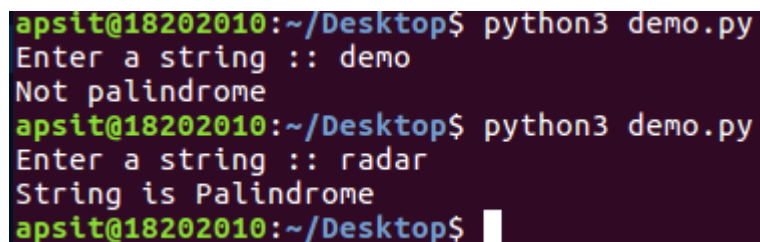


```
apsit@18202010:~/Desktop$ python3 demo.py
Enter the Lenght : 5
Enter the Breadth : 3
Area of a Circle is 15 sq.cm
```

2)

```
s1 = input("Enter a string :: ")
if(s2 == s1[::-1]):
    print("String is Palindrome")
else:
    print("Not palindrome")
```

Output ::



```
apsit@18202010:~/Desktop$ python3 demo.py
Enter a string :: demo
Not palindrome
apsit@18202010:~/Desktop$ python3 demo.py
Enter a string :: radar
String is Palindrome
apsit@18202010:~/Desktop$
```

3)

```
arr = [23, 45, 7, 2, 5, 10, 407]
for i in arr :
    if(i%2 == 0):
        print(f"{i} is Even Number")
```

```

else:
    print(f"{i} is Odd Number")
    if(i>1):
        for j in range(2, i//2):
            if (i % j) == 0:
                print(f"{i} is not a Prime Number")
                break
        else:
            print(f"{i} is a Prime Number")

```

Output ::

```

zulfiqar110@zulfiqar110-HP-ProBook-6470b:~/Desktop$ python3 demo.py
23 is Odd Number
23 is a Prime Number
45 is Odd Number
45 is not a Prime Number
7 is Odd Number
7 is a Prime Number
2 is Even Number
5 is Odd Number
5 is a Prime Number
10 is Even Number
407 is Odd Number
407 is not a Prime Number

```

4)

```

s1 = input("Enter a String :: ")
length = len(s1)
print(f"Length of the given string is {length}")

```

```

if(length>=3):
    if("ing" in s1):
        print(s1.replace("ing","ly"))

```

```

else:
    print(f"{s1}ing")

```

else :

```

print(s1)

```

Output ::

```

zulfiqar110@zulfiqar110-HP-ProBook-6470b:~/Desktop$ python3 demo.py
Enter a String :: Billing
Length of the given string is 6
Billy
zulfiqar110@zulfiqar110-HP-ProBook-6470b:~/Desktop$ python3 demo.py
Enter a String :: Programm
Length of the given string is 8
Programming
zulfiqar110@zulfiqar110-HP-ProBook-6470b:~/Desktop$ python3 demo.py
Enter a String :: do
Length of the given string is 2
do
zulfiqar110@zulfiqar110-HP-ProBook-6470b:~/Desktop$

```

5)

```
for i in range(1,51):
    a = str(i)
    if(i%4 == 0):
        print(a.replace(a,"Boundary"))
    if(i%6 == 0):
        print(a.replace(a,"In the Air"))
    if(i%3==0 and i%5==0):
        print(a.replace(a,"Helicopter Shot"))
    print(i)
```

Output ::

```
zulfiqar110@zulfiqar110-HP-ProBook-6 26
1 27
2 Boundary
3 28
Boundary 29
4 In the Air
5 Helicopter Shot
In the Air 30
6 31
7 Boundary
Boundary 32
8 33
9 34
10 35
11 Boundary
Boundary In the Air
In the Air 36
12 37
13 38
14 39
Helicopter Shot Boundary
15 40
Boundary 41
16 In the Air
17 42
In the Air 43
18 Boundary
19 44
Boundary Helicopter Shot
20 45
21 46
22 47
23 Boundary
Boundary In the Air
In the Air 48
24 49
25 --
26
```

