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BSCS-6

Lab Home Task: 01

Lab Task 1:

Write a function to check if the number is a prime number or not.

```
def is_prime():
    num=int(input("Enter a number:"))
    if num <= 1:
        return False
    for i in range(2, int(num**0.5) + 1):
        if num % i == 0:
            print( "Not a prime number")
        else:
           print ("It is a prime number")

is_prime()
is_prime()
```

```
Enter a number: 4
Not a prime number
Enter a number: 7
It is a prime number
```

Lab Task 2:

Write a function that takes a list of numbers and returns sum.

```
def total():
    n = []
    for i in range(1, 6):
        num = int(input("Enter a number: "))
        n.append(num)
    return sum(n)

print("The sum is ", total())
```

```
Enter a number:  22
Enter a number:  4
Enter a number:  5
Enter a number:  7
Enter a number:  9
The sum is  47
```

Lab Task 3:

Write a recursive function to find factorial.

```
def factorial(n):
    if n == 0 or n == 1:
        return 1
    else:
        return n * factorial(n - 1)
num = int(input("Enter a number: "))
print("Factorial of", num, "is", factorial(num))
```

```
Enter a number:  7
Factorial of 7 is 5040
```

Lab Task 4:

Write a function to check Palindrome.

```
def palandrom():
    str=input("Enter a string")
    if(str== str[::-1]):
        print ("Its a  Palindrome")
    else:
        print("It is not a Palindrome")

palandrom()
palandrom()
```

```
Enter a string ayesha
It is not a Palindrome
Enter a string noon
Its a  Palindrome
```

THE END…