Python Assignment Programs

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Program 1:

CODE:

```
# Program to check if a number is prime or not
# To take input from the user
num = int(input("Enter a number: "))
# define a flag variable
flag = False
# prime numbers are greater than 1
if num > 1:
    # check for factors
    for i in range(2, num):
        if (num % i) == 0:
            # if factor is found, set flag to True
            flag = True
            # break out of loop
            break
# check if flag is True
if flag:
    print (num, "is not a prime number")
    print (num, "is a prime number")
OUTPUT:
Enter a number: 32
32 is not a prime number
>>>
_____
Enter a number: 31
31 is a prime number
>>>
Enter a number: 17
17 is a prime number
```

Program 2:

CODE:

```
# Python String Operations
strl = 'Hello'
str2 ='World!'
# using +
print('strl + str2 = ', strl + str2)
# using *
print('strl * 3 =', strl * 3)
#slicing string
txt = "Raja Aadhithan"
x = txt.split()
print('first name is : ' ,x[0])
print('last name is : ' ,x[1])
OUTPUT:
strl + str2 = HelloWorld!
strl * 3 = HelloHelloHello
first name is : Raja
last name is : Aadhithan
```

Program 3: Python program that accepts a string and calculate the number of digits and letters.

CODE:

```
s = input("Input a string")
d=1=0
for c in s:
    if c.isdigit():
        d=d+1
    elif c.isalpha():
        l=1+1
    else:
        pass
print("Letters", 1)
print("Digits", d)
```

OUTPUT: