PYTHON ASSIGNMENT

1.FIBONACCCI SERIES:

```
PROGRAM:
a = 0
b = 1
n = int(input("Enter the range of fibonacci numbers you wish to find"))
print(a)
print(b)
for i in range(0,n-2):
    fib = a + b
    print(fib)
    a = b
    b = fib
```

OUTPUT:

i = i + 1

```
Enter the range of fibonacci numbers you wish to find10

1
1
2
3
5
8
13
21
34
>
```

2.PRIME NUMBER IN A RANGE:

PROGRAM:

```
a = int(input("Enter the lower bound: "))
b = int(input("Enter the upper bound: "))
for i in range(a,b+1):
  if i > 1:
    for j in range(2, i):
       if (i % j) == 0:
            break
       else:
            print(i , " is a prime number")
       else:
            print(i , " is neither prime nor composite")
```

OUTPUT:

3. ODD NUMBER IN WHILE LOOP

PROGRAM:

```
print("Finding odd numbers in a given range....")
m = int(input("From : "))
n = int(input("To :"))
while m < n+1:
  if(m%2)!=0:
    print("{} is a odd number".format(m))
m = m + 1</pre>
```

OUTPUT:

```
Finding odd numbers in a given range....

From: 0

To: 20

1 is a odd number
3 is a odd number
5 is a odd number
7 is a odd number
9 is a odd number
11 is a odd number
13 is a odd number
15 is a odd number
17 is a odd number
19 is a odd number
```

4. CHECK PRIME NOR COMPOSITE

PROGRAM:

```
a = int(input("Enter the number to check if it is a prime : "))
if a > 1:
  for i in range(2, a):
    if (a % i) == 0:
       print(a, " is not a prime number")
       break
  else:
    print(a, " is a prime number")
else:
    print(a, " is neither prime nor composite")
```

OUTPUT:

```
Enter the number to check if it is a prime : 7
7 is a prime number
> |
```