

## LAB TEST

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Subject: Problem solving & Progg

Slot: D11 + D12 + D13

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```
1 def max(a,b):  
    if (a >= b):  
        return a  
    else:  
        return b
```

```
a = int(input("Enter a number: "))
```

```
b = int(input("Enter another number: "))
```

```
print(max(a,b))
```

```
⇒ a = 5
```

```
b = 10
```

```
· >> 10
```

```
2 def fizz-buzz(a):  
    if (a%3 == 0):  
        return 'Fizz'  
    elif (a%5 == 0):  
        return 'Buzz'  
    elif ((a%3 == 0) and (a%5 == 0)):  
        return 'Fizzbuzz'  
    else:  
        return a
```

```
a = int(input("Enter any number: "))
```

```
print(fizz-buzz(a))
```

```
⇒ a = 15
```

```
>> Fizzbuzz
```

p=0

3 def check(s):

if (s <= 70):

return "OK"

~~elif (s > 70):~~

~~else:~~

~~p~~

elif (s > 70):

p = (s - 70) / 5

return p

elif ((s - 70) / 5) > 12):

return "License suspended"

s = int(input("Enter the speed in kms"))

print(check(s))

⇒ s = 80

>> 2



4 def table\_sum(limit):

sum = 0

for i in range(1, limit+1):

if ((i%3 == 0) or (i%5 == 0)):

sum = sum + i

return sum

limit = int(input("Enter any number:"))

print(table\_sum)

⇒ limit = 20

>> 98

5 n = int(input("Enter any number:"))

~~if (n%2 == 0):~~

if (n%2 == 0):

if ((n >= 2) and (n <= 5)):

print("Not weird")

elif ((n >= 6) and (n <= 20)):

print("Weird")

elif (n > 20):

print("Not weird")

else:

print("Weird")

⇒ n = 7

>> weird

```
6 def george_cal(year):
```

```
    leap = False
```

```
    if (year % 4 == 0):
```

```
        if (year % 100 == 0):
```

```
            if (year % 400 == 0):
```

```
                return True
```

```
            return False
```

```
        return True
```

```
    else:
```

```
        return False
```

```
    return leap
```

```
year = int(input("Enter any year: "))
```

```
print(george_cal(year))
```

```
⇒ 2000 year = 2000
```

```
>> True
```