

```
In [1]: #Assessment 3
        #problem 1

        def max(num1,num2):
            if num1>num2:
                return num1
            else:
                return num2

        num1=int(input("Enter number 1 :"))
        num2=int(input("Enter number 2 :"))
        print("Maximum of two :",max(num1,num2))
```

```
Enter number 1 :5
Enter number 2 :6
Maximum of two : 6
```

```
In [5]: #problem 2

        def fizz_buzz(num):
            if num%3==0:
                if num%5==0:
                    return 'Fizz Buzz'
                else:
                    return 'Fizz'
            elif num%5==0:
                if num%3==0:
                    return 'Fizz Buzz'
                else:
                    return 'Buzz'

            else:
                return num

        num=int(input("Enter a number :"))
        print(fizz_buzz(num))
```

```
Enter a number :15
Fizz Buzz
```

```
In [14]: #problem 3

        def speed_check(speed):
            demerit=0
            if speed <=70:
                return 'Ok'
            elif speed>70:
                demerit=(speed-70)//5
            if demerit>0:
                print("points :",demerit)
                return ''
            if demerit >= 12:
                return 'Licence Suspended'
        speed=int(input("Mention the speed of Driver :"))
        print(speed_check(speed))
```

```
Mention the speed of Driver :80
points : 2
```

```
In [17]: #problem 4

def show_numbers(lim):
    for i in range(0,lim):
        print(i," ",check(i))
def check(i):
    if(i%2==0):
        return 'EVEN'
    else:
        return 'ODD'

lim=int(input("Enter limit :"))
show_numbers(lim)
```

```
Enter limit :7
0  EVEN
1  ODD
2  EVEN
3  ODD
4  EVEN
5  ODD
6  EVEN
```

```
In [18]: #problem 5

def show_stars(rows):
    for i in range(1,rows+1):
        for j in range(0,i):
            print("*",end=" ")
        print()

rows=int(input("Enter rows :"))
show_stars(rows)
```

```
Enter rows :5
*
* *
* * *
* * * *
* * * * *
```

```
In [3]: def multiples(lim):
        list1=[]
        for i in range(1,lim):
            if i%3==0:
                list1.append(i)
            elif i%5==0:
                list1.append(i)
        for j in list1:
            print(j,end=" ")

lim=int(input("Enter limit :"))
multiples(lim)
```

```
Enter limit :20
3 5 6 9 10 12 15 18
```

```
In [5]: def primes(lim):
        for i in range(2,lim):
            is_prime(i)

        def is_prime(i):
```

```
count=0
for j in range(2,i):
    if i%j==0:
        count=1
        break
if count==0:
    print(i)

lim=int(input("Enter limit :"))
primes(lim)
```

```
Enter limit :50
2
3
5
7
11
13
17
19
23
29
31
37
41
43
47
```

In []: