In [ ]:
```python
score = int(input("Enter your test score :   "))
passing = 40
distinction = 90
```

In [ ]:
```python
if score >= distinction:
    print("You're at the top! You've earned a distinction!")

if score >= passing and score < distinction:
    print("You have passed!")

if score < passing:
    print("Sorry! You have failed")
```

In [ ]:
```python
if score==100:
    print("Perfect")
elif  90<=score<100:
    print("Distinction")
elif 65<=score<90:
    print("First Class")
elif 40<=score<65:
    print("Second Class")
else:
    print("Failed")
```

In [ ]:
```python
statement = "The coffee is bad"
if 'bad' in statement:
    print("Bad review!")

statement2 = "This phone works great"
if 'bad' in statement2:
    print("This is not a bad review")
```

In [ ]:
```python
num = int(input("Enter a number: "))
#enter 24
if num%2==0:
    print("Even")
    if num%4==0:
        print("divisible by 4")
    else:
        print("Not divisible by 4")
else:
    print("Odd")
    if num%3==0:
        print("Divisible by 3")
    else:
        print("Not divisible by 3")
```

In [ ]:
```python
if None:
    print("Is True")
else:
    print("Is False")
```

In [1]:
```python
if (10 < 0) and (0 < -10):
    print("A")
elif (10 > 0) or False:
    print("B")
else:
    print("C")
```

B

In [2]:
```python
if True or True:
    if False and True or False:
        print('A')
    elif False and False or True and True:
        print('B')
    else:
        print('C')
else:
    print('D')
```

B

In [ ]:
```python
if input_str[0] in ['a','e','i','o','u']:
    print('YES')
else:
    print('NO')
```