

J KANMANI 18-12 Tech task

```
class Calculator:
```

```
    def calculate(self, a, b=0, c=0):
```

```
        for i in (a, b, c):
```

```
            if type(i) not in (int, float):
```

```
                raise ValueError("All inputs must be integers or floats")
```

```
        if a != 0 and b != 0 and c != 0:
```

```
            return a * b * c
```

```
        elif a != 0 and b != 0 and c == 0:
```

```
            return a + b
```

```
        elif a != 0 and b == 0 and c == 0:
```

```
            return a ** 2
```

```
        else:
```

```
            return "Invalid input"
```

```
# Testing the Calculator class
```

```
c = Calculator()
```

```
try:
```

```
    print(c.calculate(2))
```

```
    print(c.calculate(2, 3))          print(c.calculate(2, 3, 4))  # Expected output: 24 (2 * 3 * 4)
```

```
    print(c.calculate(2, 3, "4"))  # Should raise ValueError
```

```
except ValueError as e:
```

```
    print(e)
```