

September -09:

Take percentage from user and print their result

85 - 100 \Rightarrow Distinction

60 - 84 \Rightarrow First class

50 - 59 \Rightarrow Second class

35 - 59 \Rightarrow pass

0 - 34 \Rightarrow fail.

code:

```
p = float(input("enter your percentage:"))
```

```
print("Percentage : ", p)
```

```
if (p <= 100 and p >= 85):
```

```
    print("Distinction")
```

```
elif (p >= 60 and p <= 84):
```

```
    print("First class")
```

```
elif (p >= 50 and p <= 59):
```

```
    print("second class")
```

```
elif (p >= 35 and p <= 59):
```

```
    print("pass")
```

```
elif (p >= 0 and p <= 34):
```

```
    print("Fail")
```

```
else:
```

```
    print("Invalid Data")
```

Write a program to check the given number is odd or even.

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

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

```
    print("The number is even")
```

```
else:
```

```
    print("The number is odd")
```

Write a program to check the given input is positive number, negative number or zero.

```
n = int(input("Enter a value:"))
```

```
if (n > 0):
```

```
    print("Positive number:")
```

```
elif (n < 0):
```

```
    print("Negative number:")
```

```
else:
```

```
    print("zero")
```

Types of Numbers:

1. Natural Numbers: 1, 2, 3, ... so on
2. Whole Numbers: 0, 1, 2, 3, ... so on
3. Integers: ..., -3, -2, -1, 0, 1, 2, 3, ...
4. Rational Numbers: p/q form
5. Irrational Numbers: numbers cannot be expressed in p/q form ($\pi, \sqrt{2}$)
6. Real Numbers: Rational + Irrational
7. Complex Numbers: Numbers of the form $a+bi$
8. Prime numbers: numbers with only one factor
2, 3, 5, 7, ...

9. Composite Numbers: numbers with more than two factors.
4, 6, 8, 9, ...

10. Even numbers: Integers divided by 2 -4, -6, 2, 4, 6, ...

11. Odd numbers: Integers not divided by 2
-3, -7, 3, 5, 7, ...