

Basic If Else Questions

1) Write a Program that takes a number.

If the number is divisible by 3, it should return “Shiv”. If it is divisible by 5, it should return “Shakti”. If it is divisible by both 3 and 5, it should return “Shiv_Shakti”. Otherwise, it should return the same number.

```
In [1]: num=int(input("Enter your number you want"))

if(num%3==0) and (num%5==0):
    a1='Shiv_Shakti'

elif (num%3==0):
    a1='Shiv'
elif(num%5==0):
    a1='Shakti'
else:
    a1=num

a1 # print(a1) in jupyter we display variable without using print()
```

Enter your number you want45

Out[1]: 'Shiv_Shakti'

Enter your number you want39

'Shiv'

2) WAP to negative or positive number

```
In [2]: num=int(input("Enter a number: "))

if num>0:
    print("Positive number")
else:
    print("Negative number")
```

Enter a number: -9
Negative number

Enter a number: 8
Positive number

3) WAP to print even or odd

```
In [3]: num=int(input("Enter a number: "))  
  
if num%2==0:  
    print("Even number")  
else:  
    print("Odd number")
```

Enter a number: 09
Odd number

Enter a number: 10
Even number

4) WAP to show grade of Student

- if marks less 45 then student fail
- if marks between 45-60 then student Grade C
- if marks between 60-80 then student Grade B
- if marks between 80-100 then student Grade A

```
In [4]: marks=int(input("Enter student marks"))  
  
if marks<=100 and marks>=80:  
    print("Grade A")  
elif marks<80 and marks>=60:  
    print("Grade B")  
elif marks<60 and marks>=45:  
    print("Grade C")  
elif marks<45:  
    print("Fail")  
else:  
    print("Invalid Marks Entered")
```

Enter student marks65
Grade B

Enter student marks85
Grade A

Enter student marks49
Grade C

Enter student marks12
Fail

5) WAP to Compare 3 number.

In [5]:

```
num1=int(input("Enter first number: "))
num2=int(input("Enter Second number: "))
num3=int(input("Enter Third number: "))

if num1>num2 and num1>num3:
    print("Num1 is Greater number")
elif num2>num3:
    print("Num2 is Greater number")
else:
    print(("Num3 Is Greater number"))
```

```
Enter first number: 8
Enter Second number: 98
Enter Third number: 0
Num2 is Greater number
```

```
Enter first number: 19
Enter Second number: 78
Enter Third number: 102
Num3 Is Greater number
```

6) WAP to check 4 condition:

- if number is even and greater than 50 then print Num greater than 50 and Even
- if number is even and Smaller than 50 then print Num smaller than 50 and Even
- if number is odd and greater than 50 then print Num greater than 50 and odd
- if number is odd and Smaller than 50 then print Num smaller than 50 and odd

```
In [6]: num=int(input("Enter your number to check"))

if num>50:
    if num%2==0:
        print("Num greter 50 and Even")
    else:
        print("Num is greater than 50 and Odd")
else:
    if num%2==0:
        print("Num Smaller 50 and Even")
    else:
        print("Num is Smaller than 50 and Odd")
```

Enter your number to check67
Num is greater than 50 and Odd

Enter your number to chech54
Num greter 50 and Even

7) WAP to check year is leap year or not

```
In [7]: num=int(input("Enter your Year to check"))

if num%100==0:
    if num%400==0:
        print("Leep year")
    else:
        print("Not a leap Year")
elif num%4==0:
    print("Leap Year")
else:
    print("Not Leap Year")

# if num%4==0:
#     if num%100!=0:
#         print("Leap Year")
#     else:
#         if num%400==0:
#             print("Leap year")
#         else:
#             print("Not Leap Year")
# else:
#     print("Not Leap Year")
```

Enter your Year to check2025
Not Leap Year

Enter your Year to check2016
Leap Year

8) Write a Program for checking the speed of drivers. This function should have one parameter: speed.

If speed is less than 70, it should print “Ok”. Otherwise, for every 5km above the speed limit (70), it should give the driver one demerit point and print the total number of demerit points. For example, if the speed is 80, it should print: “Points: 2”. If the driver gets more than 12 points, the function should print: “License suspended”

```
In [8]: def speed(sp):  
        if sp<=70:  
            print("OK")  
        else:  
            a=(sp-70)//5  
            if (a<12):  
                print(a, ' Point')  
            else:  
                print("Your license are suspend")  
  
        s_p=int(input("Enter your speed"))  
        speed(s_p)
```

Enter your speed78
1 Point

Enter your speed80
2 point

Enter your speed75
1 Point

Enter your speed90
4 Point

9) WAP to check age of user

- if age is less than 5 then print "BABY"
- if age is less than 18 and more than 5 then print "Teenager"
- if age is less than 50 and more than 18 then print "Elder"
- if age is more than 50 then print "older"

```
In [9]: a=int(input("Enter your age"))  
if a<=5:  
    print("Baby")  
elif a>5 and a<=18:  
    print("Teenager")  
elif a>18 and a<=50:  
    print("Elder")  
else:  
    print("older")
```

Enter your age63
older

Enter your age3
Baby

Enter your age34
Elder

Enter your age12
Teenager

10) WAP to calculate 2 number¶

+ for ADD

- for SUB

* for MUL

/ for div

Enter your choice: +

Enter your First number5

Enter your Second number4

ADD:9

```
In [10]: a=input("+ for ADD \n- for SUB\n* for MUL\n/ for div\nEnter your choice: ")
```

```
if a=='+':
    num1=int(input("Enter your First number"))
    num2=int(input("Enter your Second number"))
    print(f'ADD: {num1+num2}')
elif a=='-':
    num1=int(input("Enter your First number"))
    num2=int(input("Enter your Second number"))
    print(f'SUB: {num1-num2}')
elif a=='*':
    num1=int(input("Enter your First number"))
    num2=int(input("Enter your Second number"))
    print(f'MUL: {num1*num2}')
elif a=='/':
    num1=int(input("Enter your First number"))
    num2=int(input("Enter your Second number"))
    print(f'DIV: {num1/num2}')
else:
    print("Invalid choice")
```

```
+ for ADD
- for SUB
* for MUL
/ for div
Enter your choice: +
Enter your First number789
Enter your Second number9
ADD: 798
```

```
+ for ADD
- for SUB
* for MUL
/ for div
Enter your choice: -
Enter your First number789
Enter your Second number9
SUB: 780
```