

Python Programming - 2304CS401

Lab - 2

Working with Conditional Statement & Operator

01) WAP to check whether the given number is positive or negative.

```
In [3]: no=int(input("Enter Number :"))
        if(no>0):
            print("Number Is Positive..")
        else:
            print("Number is Negative..")
```

Enter Number :88
Number Is Positive..

02) WAP to check whether the given number is odd or even

```
In [5]: a=int(input("Enter Number :"))
        if(a%2==0):
            print("Number Is Even..")
        else:
            print("Number Is Odd..")
```

Enter Number :15
Number Is Odd..

03) Write a program to find the largest number from the given three numbers

```
In [7]: a=int(input("Enter 1st Number :"))
b=int(input("Enter 2nd Number :"))
c=int(input("Enter 3rd Number :"))
if(a>b and a>c):
    print(a," Is Maximum..")
elif(b>c):
    print(b," Is Maximum..")
else:
    print(c," Is Maximum..")
```

```
Enter 1st Number :50
Enter 2nd Number :80
Enter 3rd Number :45
80 Is Maximum..
```

4) Write a program to display the day's name according to the number given by the user.

```
In [1]: day=int(input("Enter Day number :"))
if(day==1):
    print("Monday..")
elif(day==2):
    print("Tuesday..")
elif(day==3):
    print("Wednesday..")
elif(day==4):
    print("Thursday..")
elif(day==5):
    print("Friday..")
elif(day==6):
    print("Saturday..")
elif(day==7):
    print("Sunday..")
else:
    print("Invaild Number Try Again..")
```

```
Friday..
```

05) Write a program to perform addition, subtraction, multiplication, and division of two numbers based on user input.

```
In [31]: a=int(input("Enter 1st Number :"))
b=int(input("Enter 2nd Number :"))
print("Enter 1 for Addition","Enter 2 for Subtraction","Enter 3 for Multipl
ch=int(input("Enter ur Choice :"))
if(ch==1):
    print("Addition is :", (a+b))
elif(ch==2):
    print("Subtraction is :", (a-b))
elif(ch==3):
    print("Multiplication is :", (a*b))
elif(ch==4):
    if(b!=0):
        print("Division is :", (a/b))
    else:
        print("Division not possible")
else:
    print("Invaild Choice...")
```

```
Enter 1st Number :50
Enter 2nd Number :0
Enter 1 for Addition
Enter 2 for Subtraction
Enter 3 for Multiplication
Enter 4 for Division
Enter ur Choice :4
Division not possible
```

6) Write a program to find the largest number from the given two numbers using the ternary operator.

```
In [2]: a=int(input("Enter 1st Number :"))
b=int(input("Enter 2nd Number :"))
print(a," is Maximum..") if(a>b) else print(b," is Maximum")
```

```
70 is Maximum
```

7) Write a program to find the largest number from the given three numbers using the ternary operator

```
In [3]: a=int(input("Enter 1st Number :"))
b=int(input("Enter 2nd Number :"))
c=int(input("Enter 3rd Number :"))
max = a if(a>b and a>c) else (b if b>c else c)
print("Maximum number is :",max)
```

```
Maximum number is : 60
```

8) Write a program to check whether the given year is a leap year or not.

```
In [4]: year=int(input("Enter Year :"))
if (year % 400 == 0) and (year % 100 == 0):
    print(year," is a leap year")

elif (year % 4 ==0) and (year % 100 != 0):
    print(year," is a leap year")

else:
    print(year," is not a leap year")
```

3000 is not a leap year

09) Write a program to calculate electricity bill based on the following criteria. Take the units from the user

- a. First 1 to 50 units – Rs. 2.60/unit
- b. Next 50 to 100 units – Rs. 3.25/unit
- c. Next 100 to 200 units – Rs. 5.5/unit
- d. above 200 units – Rs. 8.0/unit

```
In [5]: unit=int(input("Enter Unit :"))
amount = 0
nunit = 0
if(unit>0):
    amount=unit*2.60
    nunit=unit-50
if(nunit>0 and nunit<=50):
    amount+=nunit*3.25
    nunit=nunit-100
if(nunit>0 and nunit<=100):
    amount=nunit*5.5
    nunit=nunit-200
if(nunit>200):
    amount=nunit*8.0
print("Bill.... ",amount)
```

Bill.... 159.25