# **Tasks**

```
Task 1: Write a program to find maximum between two numbers.
Task 2: Write a program to find maximum between three numbers.
Task 3: Write a program to check whether a number is negative, positive or zero.
Task 4: Write a program to check whether a number is divisible by 5 and 11 or not.
Task 5: Write a program to check whether a number is even or odd.
Task 6: Write a program to input any alphabet and check whether it is vowel or not.
Task 7: Write a program to input day number of a month (31 days) and print the number of
week (1,2,3,4).
Task 8: Write a program to input month number and print number of days in that month.
Task 9: Write a program to give the name of the day when given the number of day in a week.
e.g., User enters 1, answer comes "Monday" and son on to 7.
Task 10: Write a program to input marks (out of 100 each) of five subjects Physics, Chemistry,
Biology, Mathematics and Computer. Calculate percentage and grade of each subject according
to following:
Percentage >= 90% : Grade A
Percentage >= 80% : Grade B
Percentage >= 70% : Grade C
Percentage >= 60% : Grade D
Percentage >= 40% : Grade E
Percentage < 40% : Grade F
Task 11: Write a program to input electricity unit charges and calculate total electricity bill
according to the given condition:
For first 50 units Rs. 0.50/unit
For next 100 units (i.e., 51 to 150) Rs. 0.75/unit
For next 100 units (i.e., 151 to 250) Rs. 1.20/unit
For units above 250 Rs. 1.50/unit
An additional surcharge of 20% is added to the bill
```

## Task 1:

Write a program to find maximum between two numbers.

```
In [1]: number = float(input("Number 1 = "))
    number2 = float(input("Number 2 ="))

if number > number2:
    print(f"Number 1 is greater {number}")
elif number == number2:
    print("Numbers are equal")
else:
    print(f"Number2 are greater {number2}")
```

```
Number 1 = 12
Number 2 =1
Number 1 is greater 12.0
```

### Task 2:

Write a program to find maximum between three numbers.

## Task 3:

Write a program to check whether a number is negative, positive or zero.

```
In [11]:     num = float(input("input Number : "))
     if num == 0:
          print("number is zero")
     elif num > 0:
          print("number is positive")
     else:
          print("number is negative")

input Number : -3
number is negative
```

#### Task 4:

Write a program to check whether a number is divisible by 5 and 11 or not.

```
In [15]:    num = float(input("input Number : "))
    if num % 5 == 0 and num % 11 == 0:
        print("the number is divisible by 5 and 11")
    else:
        print("the number is not divisible by 5 and 11")

input Number : 15
the number is not divisible by 5 and 11
```

## Task 5:

Write a program to check whether a number is even or odd.

```
In [16]: num = float(input("input Number : "))
    if num % 2==0:
        print("even",num)
    else:
        print("odd",odd)

    input Number : 4
    even 4.0
```

#### Task 6:

Write a program to input any alphabet and check whether it is vowel or not.

```
In [23]: alpha = input("input Number : ")
alpha = alpha.lower()
if alpha == "a" or alpha == "e" or alpha == "i" or alpha == "o" or alpha == "u":
    print("the alphabet is vowel:",alpha)
else:
    print("the alphabet is not vowel:",alpha)
input Number : r
```

#### Task 7:

Write a program to input day number of a month (31 days) and print the number of week (1,2,3,4).

the alphabet is not vowel: r

```
In [27]: days = int(input("input Number : "))
    weeks = days//7
    print("weeks : ",weeks)

input Number : 31
    weeks : 4
```

#### Task 8:

Write a program to input month number and print number of days in that month.

```
In [28]: month = int(input("Enter month number (1-12): "))

if month == 2:
    print("Number of days: 28 or 29 (leap year)")
elif month in [4, 6, 9, 11]:
    print("Number of days: 30")
else:
    print("Number of days: 31")
Enter month number (1-12): 5
```

#### Task 9:

Number of days: 31

Write a program to give the name of the day when given the number of day in a week. e.g., User enters 1, answer comes "Monday" and son on to 7.

```
In [29]: day_number = int(input("Enter day number (1-7): "))

days = ['Monday', 'Tuesday', 'Wednesday', 'Thursday', 'Friday', 'Saturday', 'Sunday']

if day_number >= 1 and day_number <= 7:
    day_name = days[day_number - 1]
    print("Day name:", day_name)

else:
    print("Invalid day number. Please enter a number between 1 and 7.")</pre>
```

Enter day number (1-7): 4 Day name: Thursday

#### **Task 10:**

Write a program to input marks (out of 100 each) of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade of each subject according to following:

Percentage >= 90% : Grade A
Percentage >= 80% : Grade B
Percentage >= 70% : Grade C
Percentage >= 60% : Grade D
Percentage >= 40% : Grade E
Percentage < 40% : Grade F

```
physics_marks = int(input("Enter marks in Physics (out of 100): "))
In [31]:
         chemistry marks = int(input("Enter marks in Chemistry (out of 100): "))
         biology marks = int(input("Enter marks in Biology (out of 100): "))
         mathematics_marks = int(input("Enter marks in Mathematics (out of 100): "))
         computer marks = int(input("Enter marks in Computer (out of 100): "))
         total marks = 500
         obtained_marks = physics_marks + chemistry_marks + biology_marks + mathematics_marks + computer_marks
         percentage = (obtained marks / total marks) * 100
         print("Percentage:", percentage)
         if percentage >= 90:
             grade = "A"
         elif percentage >= 80:
             grade = "B"
         elif percentage >= 70:
             grade = "C"
         elif percentage >= 60:
             grade = "D"
         elif percentage >= 40:
             grade = "E"
         else:
             grade = "F"
         print("Grade:", grade)
         Enter marks in Physics (out of 100): 89
         Enter marks in Chemistry (out of 100): 90
         Enter marks in Biology (out of 100): 96
         Enter marks in Mathematics (out of 100): 98
         Enter marks in Computer (out of 100): 67
         Percentage: 88.0
         Grade: B
```

## **Task 11:**

```
Write a program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units (i.e., 51 to 150) Rs. 0.75/unit

For next 100 units (i.e., 151 to 250) Rs. 1.20/unit

For units above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill
```

```
In [32]: unit_charges = float(input("Enter the number of electricity units consumed: "))

if unit_charges <= 50:
    bill = unit_charges * 0.50
elif unit_charges <= 150:
    bill = 50 * 0.50 + (unit_charges - 50) * 0.75
elif unit_charges <= 250:
    bill = 50 * 0.50 + 100 * 0.75 + (unit_charges - 150) * 1.20
else:
    bill = 50 * 0.50 + 100 * 0.75 + 100 * 1.20 + (unit_charges - 250) * 1.50

surcharge = bill * 0.20
total_bill = bill + surcharge

print("Total Electricity Bill: Rs.", total_bill)</pre>
```

Enter the number of electricity units consumed: 190 Total Electricity Bill: Rs. 177.6

```
In [ ]:
```