

**Assignment -1**  
Python Programming

Assignment Date	29 September 2022
Team ID	PNT2022TMID44143
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Student Roll Number	724019104017
Maximum Marks	2 Marks

**Question-1:**

Write a Python program to print the calendar of a given month and year.

**Solution:**

```
import calendar

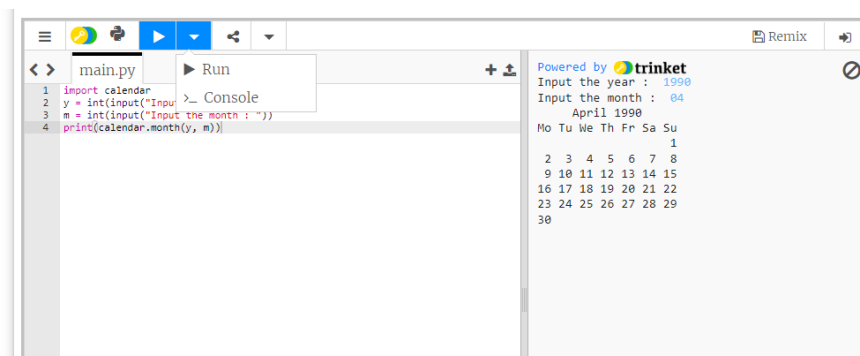
y=int(input("Input the year : "))
m=int(input("Input the month : "))

print(calendar.month(y, m))

import calendar

y=int(input("Input the year : "))
m=int(input("Input the month : "))

print(calendar.month(y, m))
```



The screenshot shows a Python IDE interface. On the left, a code editor displays the following code in `main.py`:

```
1 import calendar
2 y = int(input("Input the year : "))
3 m = int(input("Input the month : "))
4 print(calendar.month(y, m))
```

On the right, the output console shows the execution results:

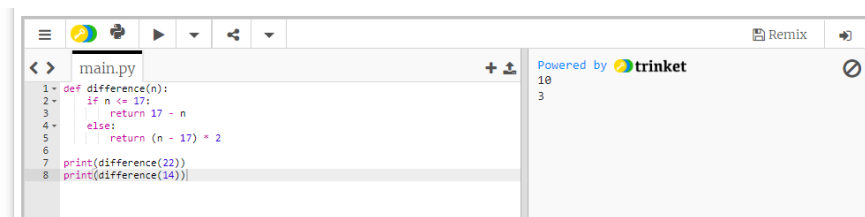
```
Powered by trinket
Input the year : 1990
Input the month : 04
April 1990
Mo Tu We Th Fr Sa Su
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
```

### Question-2:

Write a Python program to get the difference between a given number and 17, if the number is greater than 17 return double the absolute difference.

### Solution:

```
def difference(n):  
    if n <= 17:  
        return 17 - n  
    else:  
        return (n - 17) * 2  
print(difference(22))
```



The screenshot shows a Python IDE interface. On the left, a code editor window titled 'main.py' contains the following code:

```
1- def difference(n):  
2-     if n <= 17:  
3-         return 17 - n  
4-     else:  
5-         return (n - 17) * 2  
6-  
7- print(difference(22))  
8- print(difference(14))
```

On the right, the output console shows the results of the program execution:

```
10  
3
```

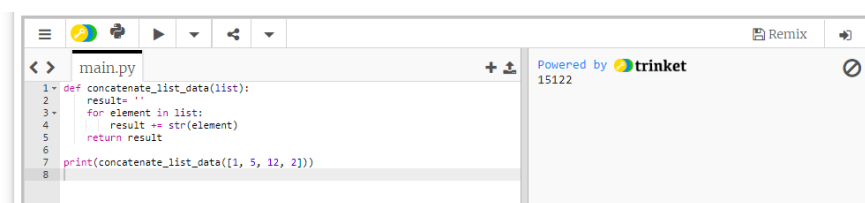
The output corresponds to the two print statements in the code: the first prints 10 (17 - 7) and the second prints 3 (2 \* 7).

### Question-3:

Write a Python program to concatenate all elements in a list into a string and return it.

#### Solution:

```
def concatenate_list_data(list):  
    result= ''  
    for element in list:  
        result += str(element)  
    return result  
  
print(concatenate_list_data([1, 5, 12, 2]))
```

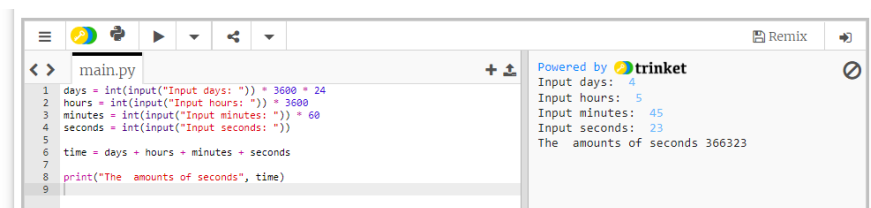


#### Question-4:

Write a Python program to convert all units of time into seconds.

#### Solution:

```
days = int(input("Input days: ")) * 3600 * 24
hours = int(input("Input hours: ")) * 3600
minutes = int(input("Input minutes: ")) * 60
seconds = int(input("Input seconds: "))
time = days + hours + minutes + seconds
```



The screenshot shows a code editor with a file named 'main.py'. The code is as follows:

```
1 days = int(input("Input days: ")) * 3600 * 24
2 hours = int(input("Input hours: ")) * 3600
3 minutes = int(input("Input minutes: ")) * 60
4 seconds = int(input("Input seconds: "))
5
6 time = days + hours + minutes + seconds
7
8 print("The amounts of seconds", time)
9
```

The output of the program is displayed on the right side of the editor:

```
Powered by trinket
Input days: 4
Input hours: 5
Input minutes: 45
Input seconds: 23
The amounts of seconds 366323
```

### Question-5:

Write a Python program to input a number, if it is not a number generates an error message.

### Solution:

```
while True:
    try:
        a = int(input("Input a number: "))
        break
    except ValueError:
```



The screenshot shows a code editor window titled 'main.py' with the following Python code:

```
1 while True:
2     try:
3         a = int(input("Input a number: "))
4         break
5     except ValueError:
6         print("\nThis is not a number. Try again...")
7         print()
8
```

On the right side of the editor, there is a console output area. It shows the prompt 'Input a number: ' followed by the user input 'f'. Below this, it displays the message 'This is not a number. Try again...' and then another prompt 'Input a number: ' with a cursor.