

Assignment -1
Python Programming

Assignment Date	10 October 2022
Team ID	PNT2022TMID44153
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Student Roll Number	724019104013
Maximum Marks	2 Marks

Question-1:

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

Solution:

```
import calendar

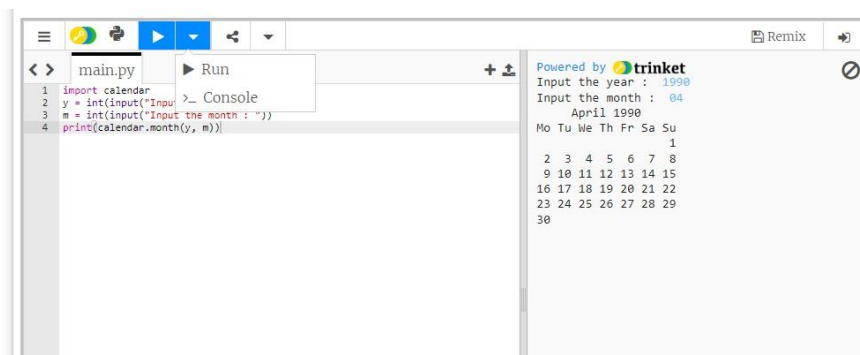
y=int(input("Input the year : "))
m=int(input("Input the month : "))

print(calendar.month(y, m))


import calendar

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

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



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

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Input the year : 1990
Input the month : 4
April 1990

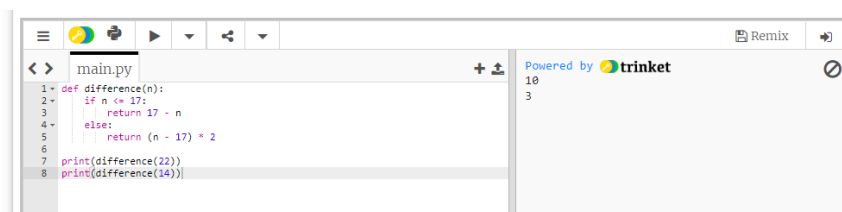
Mo	Tu	We	Th	Fr	Sa	Su
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

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 web-based Python IDE interface. On the left, a code editor displays the following Python code in a file named 'main.py':

```
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:

```
18  
3
```

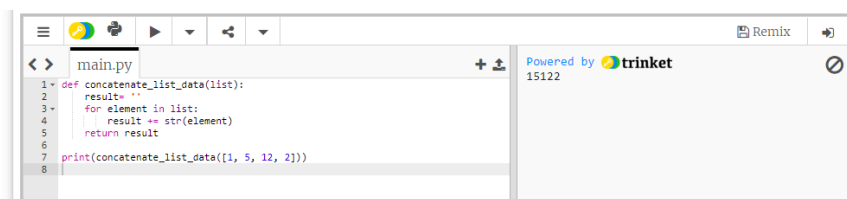
The output '18' corresponds to the first print statement (difference(22)), and '3' corresponds to the second print statement (difference(14)). The interface also includes a 'Remix' button and a 'Powered by trinket' logo.

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]))
```

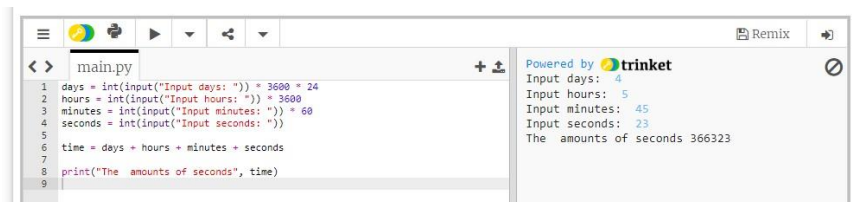


Question-4:

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 web-based Python IDE interface. On the left, a code editor displays a Python script named 'main.py'. The script prompts the user for days, hours, minutes, and seconds, converts them to seconds, and prints the total. On the right, the output console shows the results of running the script with inputs 4, 5, 45, and 23, resulting in a total of 366323 seconds. The interface includes a toolbar with icons for file operations and execution, and a 'Remix' button.

```
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
```

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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 a toolbar at the top. The code is as follows:

```
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 'Powered by trinket' logo and a 'Remix' button. Below this, the input field shows 'Input a number: f' and the output area displays 'This is not a number. Try again...' followed by a new prompt 'Input a number: ' with a cursor.