

**Assignment -2**  
Python Programming

Assignment Date	29 September 2022
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Student Roll Number	724019104020
Maximum Marks	2 Marks

**Question-1:**

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

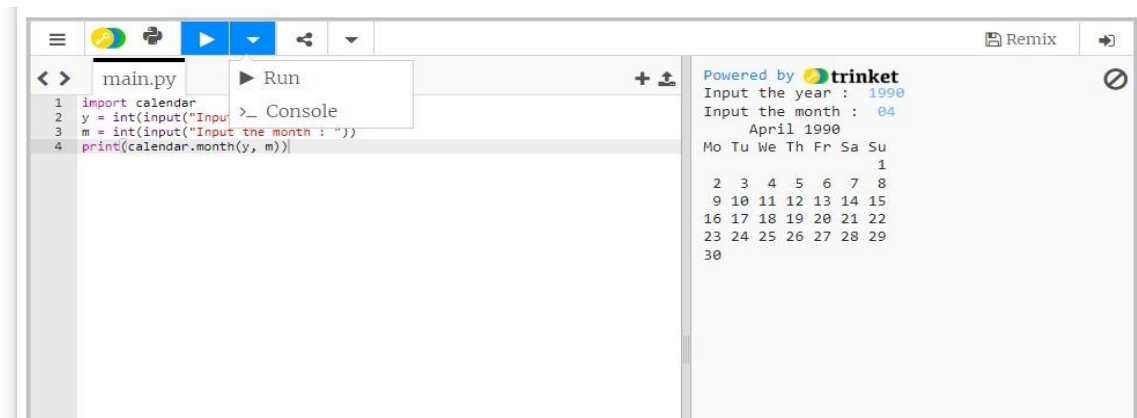
**Solution:**

```
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))
```



**Question-2:**

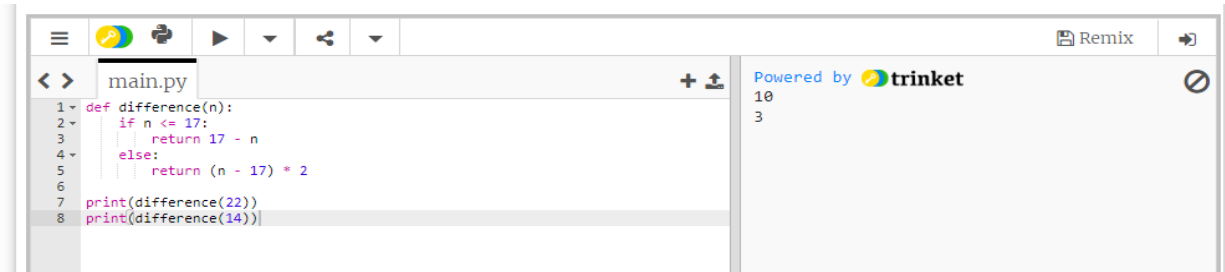
Write a Python program to get the difference between a given number and 17, if the number is greater than 17 return double the absolute difference.

**Solution:**

```
def difference(n):
    if n <= 17:
        return 17 - n
    else:
```


```
        return (n - 17) * 2
    print(difference(22))
```

**Output:**



The screenshot shows a code editor with a file named 'main.py'. The code defines a function 'difference(n)' that returns '17 - n' if 'n' is less than or equal to 17, and '(n - 17) \* 2' otherwise. It then prints the results of 'difference(22)' and 'difference(14)'. The output on the right shows '10' and '3'.

```
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))
```

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10  
3

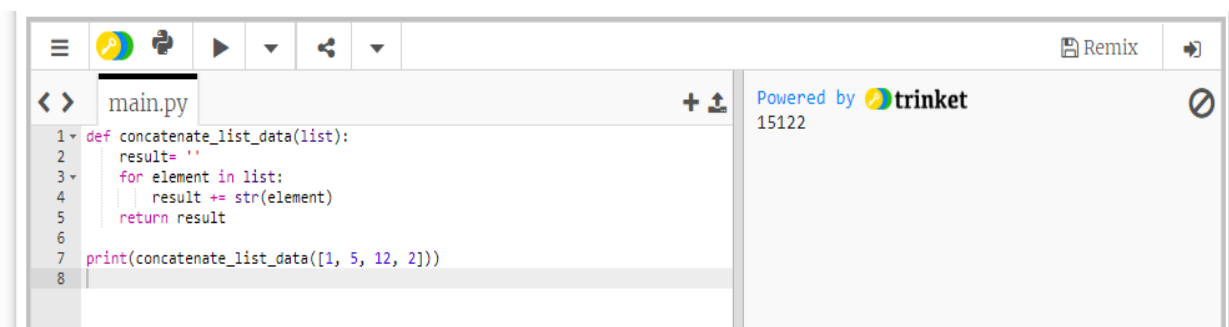
### Question-3

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]))
```

**Output:**



The screenshot shows a code editor with a file named 'main.py'. The code defines a function 'concatenate\_list\_data(list)' that concatenates all elements of a list into a single string. It then prints the result of 'concatenate\_list\_data([1, 5, 12, 2])'. The output on the right shows '15122'.

```
1 def concatenate_list_data(list):
2     result= ''
3     for element in list:
4         result += str(element)
5     return result
6
7 print(concatenate_list_data([1, 5, 12, 2]))
8
```

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15122

### Question-4:

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

**Solution:**

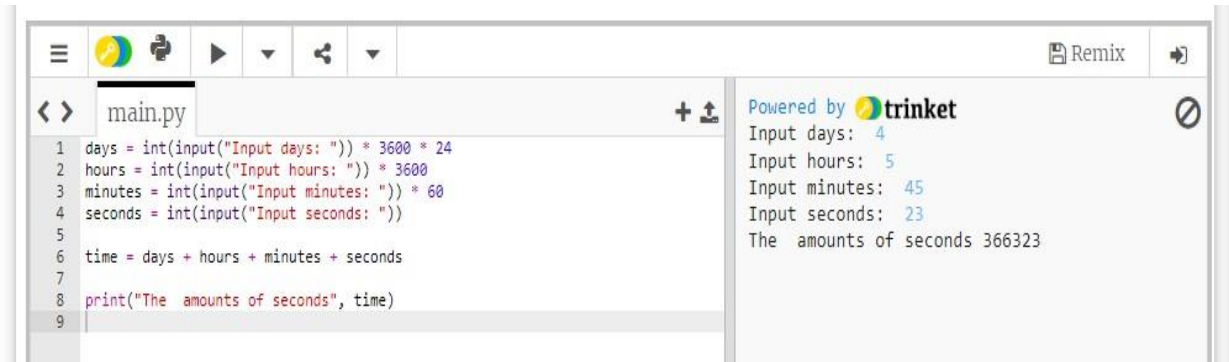
```
days = int(input("Input days: ")) * 3600 * 24
hours = int(input("Input hours: ")) * 3600
```

```

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

```


Output:



```

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.

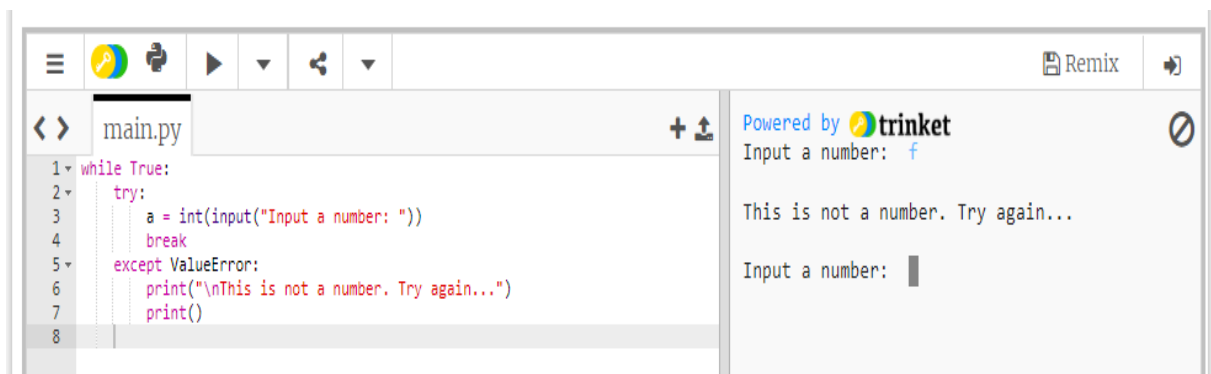
**Solution:**

```

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

```


Output:



```

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

```

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Input a number: f

This is not a number. Try again...

Input a number: █

