

Assignment -1
Python Programming

Assignment Date	29 September 2022
Team Id	PNT2022TMID44153
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Student Roll Number	724019104012
Maximum Marks	2 Marks

Question-1:

Write a Python program to display the current date and time.

Solution:

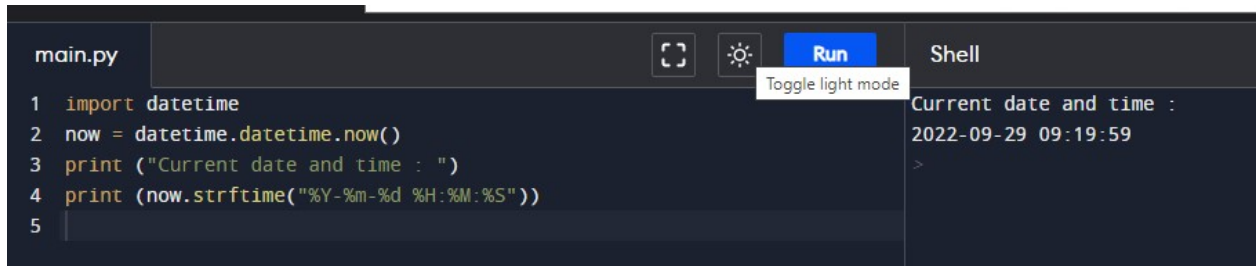
```
import datetime

now = datetime.datetime.now()

print ("Current date and time : ")

print (now.strftime("%Y-%m-%d %H:%M:%S"))
```

Output:

A screenshot of a Python IDE interface. The editor window shows a file named 'main.py' with the following code:

```
1 import datetime
2 now = datetime.datetime.now()
3 print ("Current date and time : ")
4 print (now.strftime("%Y-%m-%d %H:%M:%S"))
5
```

There are icons for running the code and toggling light mode. The output shell on the right displays:

```
Current date and time :
2022-09-29 09:19:59
>
```


Question-2:

Write a Python program to display the first and last colors from the following list.

```
color_list = ["Red","Green","White" ,"Black"]
```

Solution:

```
color_list = ["Red","Green","White" ,"Black"]  
print( "%s %s"%(color_list[0],color_list[-1]))
```


main.py		Shell
<pre>1 color_list = ["Red","Green","White" ,"Black"] 2 print("%s %s"%(color_list[0],color_list[-1])) 3</pre>		Red Black >

Question-3:

Write a Python program to solve $(x + y) * (x + y)$.

Solution:

```
x, y = 4, 3  
result = x * x + 2 * x * y + y * y  
print("({} + {}) ^ 2) = {}".format(x, y, result))
```

main.py		Shell
<pre>1 x, y = 4, 3 2 result = x * x + 2 * x * y + y * y 3 print("({} + {}) ^ 2) = {}".format(x, y, result)) 4</pre>		(4 + 3) ^ 2) = 49 >

Question-4:

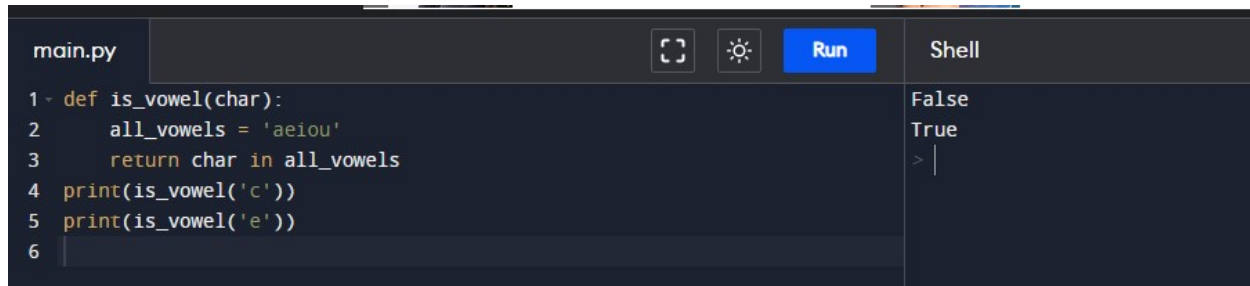
Write a Python program to test whether a passed letter is a vowel or not.

Solution:

```
def is_vowel(char):  
    all_vowels = 'aeiou'
```

```
    return char in all_vowels

print(is_vowel('c'))
print(is_vowel('e'))
```



The screenshot shows a code editor with a file named 'main.py'. The code defines a function `is_vowel(char)` that checks if a character is in the string 'aeiou'. It then prints the results of `is_vowel('c')` and `is_vowel('e')`. To the right of the code editor is a 'Shell' window showing the output: 'False' for 'c' and 'True' for 'e'.

```
main.py  [Full Screen] [Theme] [Run] Shell
1 def is_vowel(char):
2     all_vowels = 'aeiou'
3     return char in all_vowels
4 print(is_vowel('c'))
5 print(is_vowel('e'))
6
```

False
True
> |

Question-5:

Write a Python program to calculate number of days between two dates.

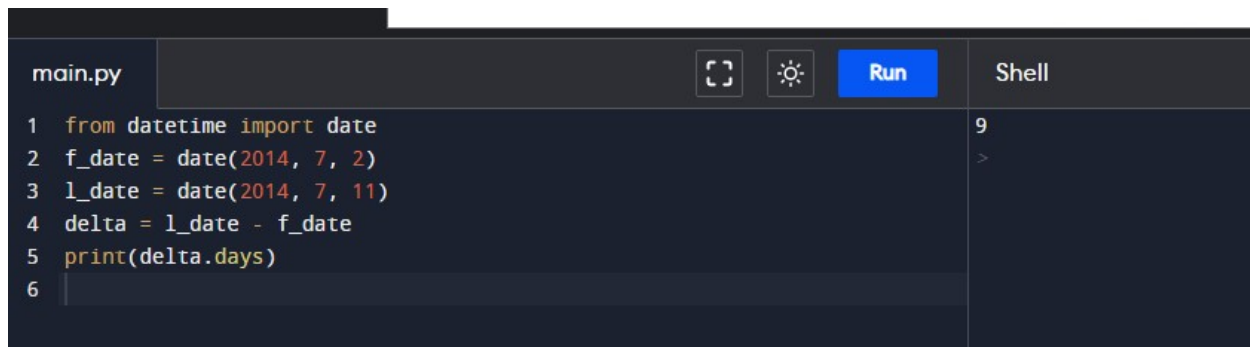
Solution:

```
from datetime import date

f_date = date(2014, 7, 2)
l_date = date(2014, 7, 11)

delta = l_date - f_date

print(delta.days)
```



The screenshot shows a code editor with a file named 'main.py'. The code imports the `date` class from the `datetime` module. It then creates two date objects: `f_date` for July 2, 2014, and `l_date` for July 11, 2014. It calculates the difference between them as `delta` and prints the number of days using `delta.days`. To the right of the code editor is a 'Shell' window showing the output: '9'.

```
main.py  [Full Screen] [Theme] [Run] Shell
1 from datetime import date
2 f_date = date(2014, 7, 2)
3 l_date = date(2014, 7, 11)
4 delta = l_date - f_date
5 print(delta.days)
6
```

9
>