Assignment -2
Python Programming

Assignment Date	29 September 2022
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Maximum Marks	2 Marks

Question-1:

Write a Python program to find whether a given number (accept from the user) is even or odd, print out an appropriate message to the user

Solution:

```
num=int(input("ENTER A NUMBER"))
mod = num % 2
if mod>0:
    print("This is an odd number.")
else:
    print("This is an even number.")
```

```
main.py                                    Run    Shell

1  num = int(input("Enter a number: "))        Enter a number: 4
2  mod = num % 2                                This is an even number.
3 ▾ if mod > 0:                                 >
4      print("This is an odd number.")
5 ▾ else:
6      print("This is an even number.")
```

Question-2:

Write a Python program to get the n (non-negative integer) copies of the first 2 characters of a given string. Return the n copies of the whole string if the length is less than 2

Solution:

```
def substring_copy(str, n):
    flen = 2
    if flen > len(str):
        flen = len(str)
        substr = str[:flen]
```

```
        result = ""
    for i in range(n):
    result = result + substr
    return result
    print(substring_copy('abcdef', 2))
    print(substring_copy('p', 3));
```

--

```
main.py                                    [ ]  (  Run    Shell

1 ▾ def substring_copy(str, n):              Enter Fullscreen    abab
2      flen = 2                                                  ppp
3 ▾    if flen > len(str):                                       >
4        flen = len(str)
5      substr = str[:flen]
6
7      result = ""
8 ▾    for i in range(n):
9        result = result + substr
10     return result
11  print(substring_copy('abcdef', 2))
12  print(substring_copy('p', 3));
13
```

Question-3:

Write a Python program to count the number 4 in a given list.

Solution:

```
def list_count_4(nums):
count = 0
for num in nums:
if num == 4:
count = count + 1

return count

print(list_count_4([1, 4, 6, 7, 4]))
print(list_count_4([1, 4, 6, 4, 7, 4]))
```

```
main.py                                    [ ]  (  Run    Shell                                Clear

1 ▾ def list_count_4(nums):                                      2
2      count = 0                                                 3
3 ▾    for num in nums:                                          >
4 ▾      if num == 4:
5          count = count + 1
6
7      return count
8
9  print(list_count_4([1, 4, 6, 7, 4]))
10  print(list_count_4([1, 4, 6, 4, 7, 4]))
```
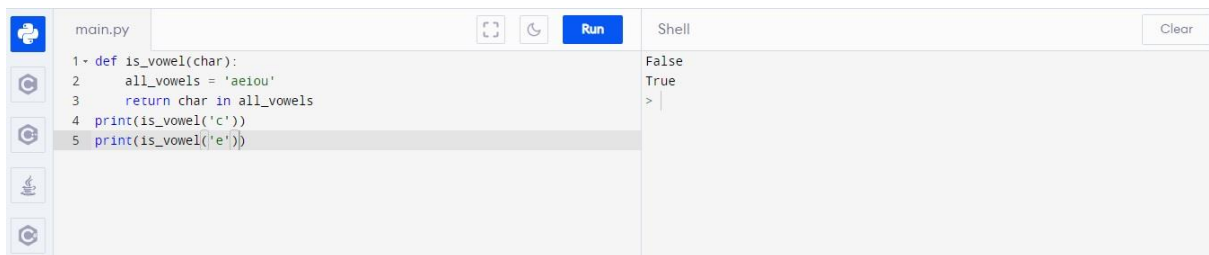
Question-4:

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

Solution:

```python
def is_vowel(char):
    all_vowels = 'aeiou'
    return char in all_vowels
print(is_vowel('c'))
print(is_vowel('e'))
```


Question-5:

Write a Python program to check whether a specified value is contained in a group of values.

Test Data:
   3 -> [1, 5, 8, 3] : True
   -1 -> [1, 5, 8, 3] : False

Solution:

```python
def is_group_member(group_data, n):
    for value in group_data:
        if n == value:
            return True
    return False
print(is_group_member([1, 5, 8, 3], 3))
```

print(is_group_member([5, 8, 3], -1))

```python
1  def is_group_member(group_data, n):
2      for value in group_data:
3          if n == value:
4              return True
5      return False
6  print(is_group_member([1, 5, 8, 3], 3))
7  print(is_group_member([5, 8, 3], -1))
```

Shell

```
True
False
>
```