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course : python-ml-ai
Questions:

Assignment 3

Q1) Write a program to display a menu for calculating area of a circle OR perimeter of a circle

Sample Input 1:

```
Enter radius of the circle : 2.5
1. Calculate Area
2. Calculate Perimeter
Enter your choice (1 or 2) : 1
Area of circle with radius 2.5 is 19.6349375
```

Sample Input 2:

```
Enter radius of the circle : 2.5
1. Calculate Area
2. Calculate Perimeter
Enter your choice (1 or 2) : 2
Perimeter of circle with radius 2.5 is 15.70795
```

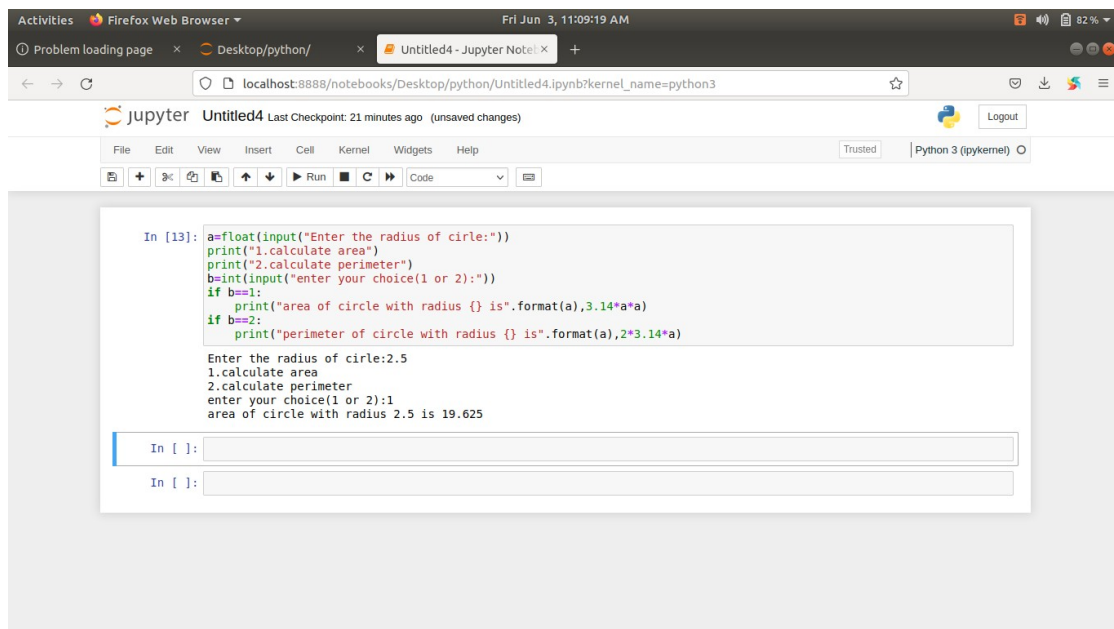
Q2) Program to find the multiples of a number (the divisor) out of given 5 numbers.

```
Enter five numbers below
First number : 185
Second number : 3450
Third number : 1235
Fourth number : 1100
Fifth number : 905
Enter divisor number : 15
Multiples of 15.0 are :
3450.0
1 multiples of 15.0 found
```

Q3) Write a program to create a basic calculator

Q1:CODE

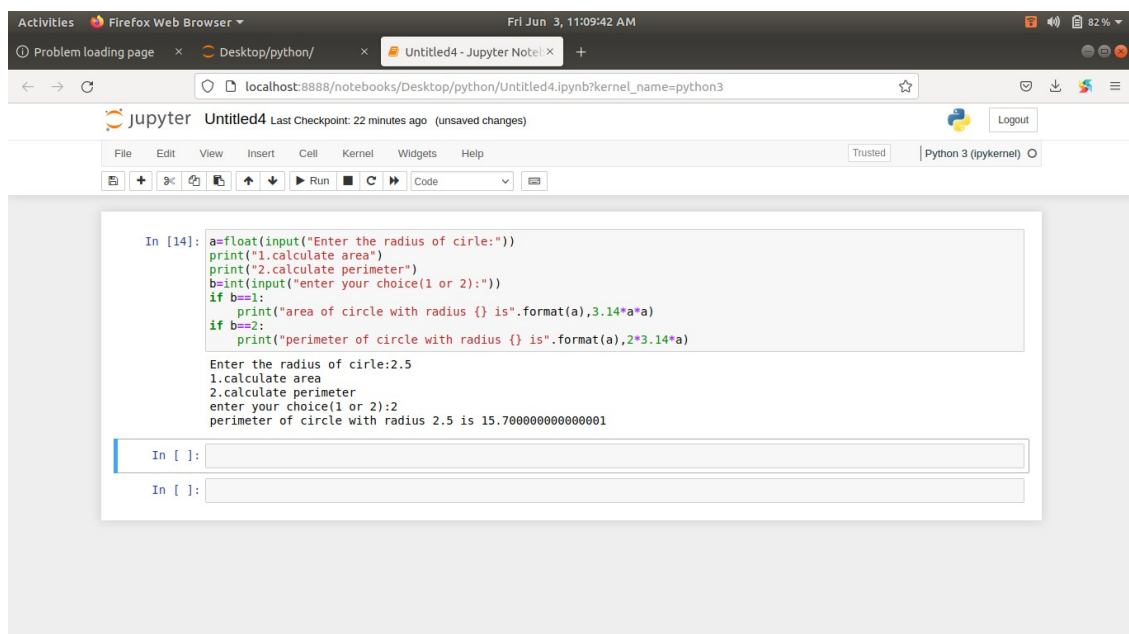
```
a=float(input("Enter the radius of circle:"))
print("1.calculate area")
print("2.calculate perimeter")
b=int(input("enter your choice(1 or 2):"))
if b==1:
    print("area of circle with radius {} is".format(a),3.14*a*a)
if b==2:
    print("perimeter of circle with radius {} is".format(a),2*3.14*a)
```



The screenshot shows a Jupyter Notebook interface in a Firefox browser. The code from the first block is pasted into a cell. The output shows the user entering 2.5 for the radius and 1 for the choice, resulting in the area calculation: 19.625.

```
In [13]: a=float(input("Enter the radius of circle:"))
          print("1.calculate area")
          print("2.calculate perimeter")
          b=int(input("enter your choice(1 or 2):"))
          if b==1:
              print("area of circle with radius {} is".format(a),3.14*a*a)
          if b==2:
              print("perimeter of circle with radius {} is".format(a),2*3.14*a)

Enter the radius of circle:2.5
1.calculate area
2.calculate perimeter
enter your choice(1 or 2):1
area of circle with radius 2.5 is 19.625
```



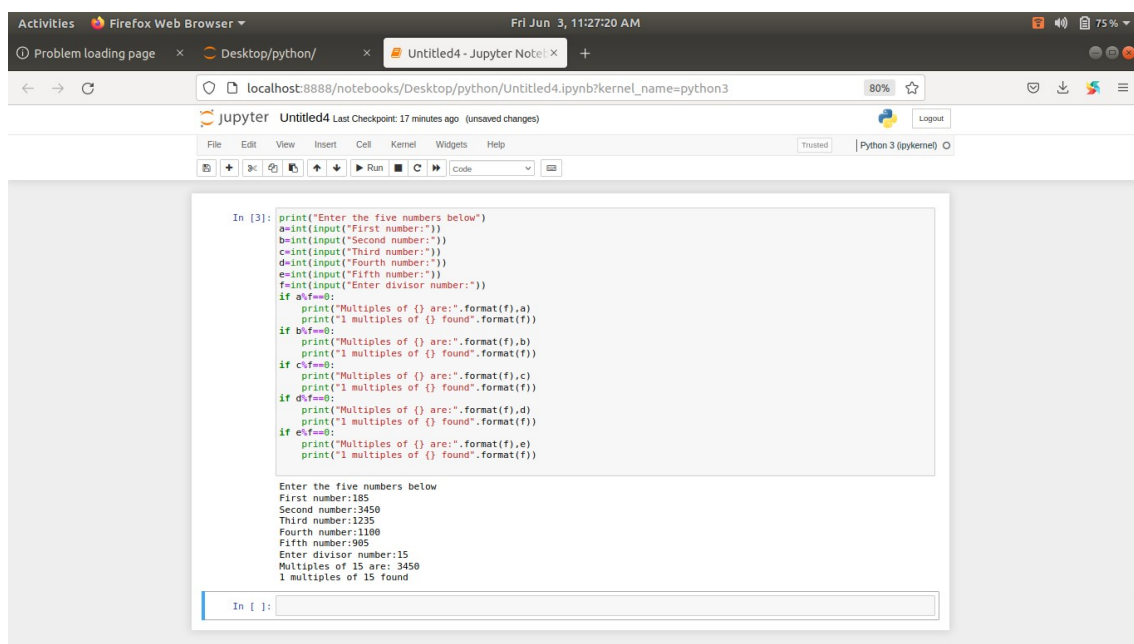
The screenshot shows the same Jupyter Notebook interface. The code from the second block is pasted into a cell. The output shows the user entering 2.5 for the radius and 2 for the choice, resulting in the perimeter calculation: 15.700000000000001.

```
In [14]: a=float(input("Enter the radius of circle:"))
          print("1.calculate area")
          print("2.calculate perimeter")
          b=int(input("enter your choice(1 or 2):"))
          if b==1:
              print("area of circle with radius {} is".format(a),3.14*a*a)
          if b==2:
              print("perimeter of circle with radius {} is".format(a),2*3.14*a)

Enter the radius of circle:2.5
1.calculate area
2.calculate perimeter
enter your choice(1 or 2):2
perimeter of circle with radius 2.5 is 15.700000000000001
```

Q2:CODE

```
print("Enter the five numbers below")
a=int(input("First number:"))
b=int(input("Second number:"))
c=int(input("Third number:"))
d=int(input("Fourth number:"))
e=int(input("Fifth number:"))
f=int(input("Enter divisor number:"))
if a%f==0:
    print("Multiples of {} are:".format(f),a)
    print("1 multiples of {} found".format(f))
if b%f==0:
    print("Multiples of {} are:".format(f),b)
    print("1 multiples of {} found".format(f))
if c%f==0:
    print("Multiples of {} are:".format(f),c)
    print("1 multiples of {} found".format(f))
if d%f==0:
    print("Multiples of {} are:".format(f),d)
    print("1 multiples of {} found".format(f))
if e%f==0:
    print("Multiples of {} are:".format(f),e)
    print("1 multiples of {} found".format(f))
```



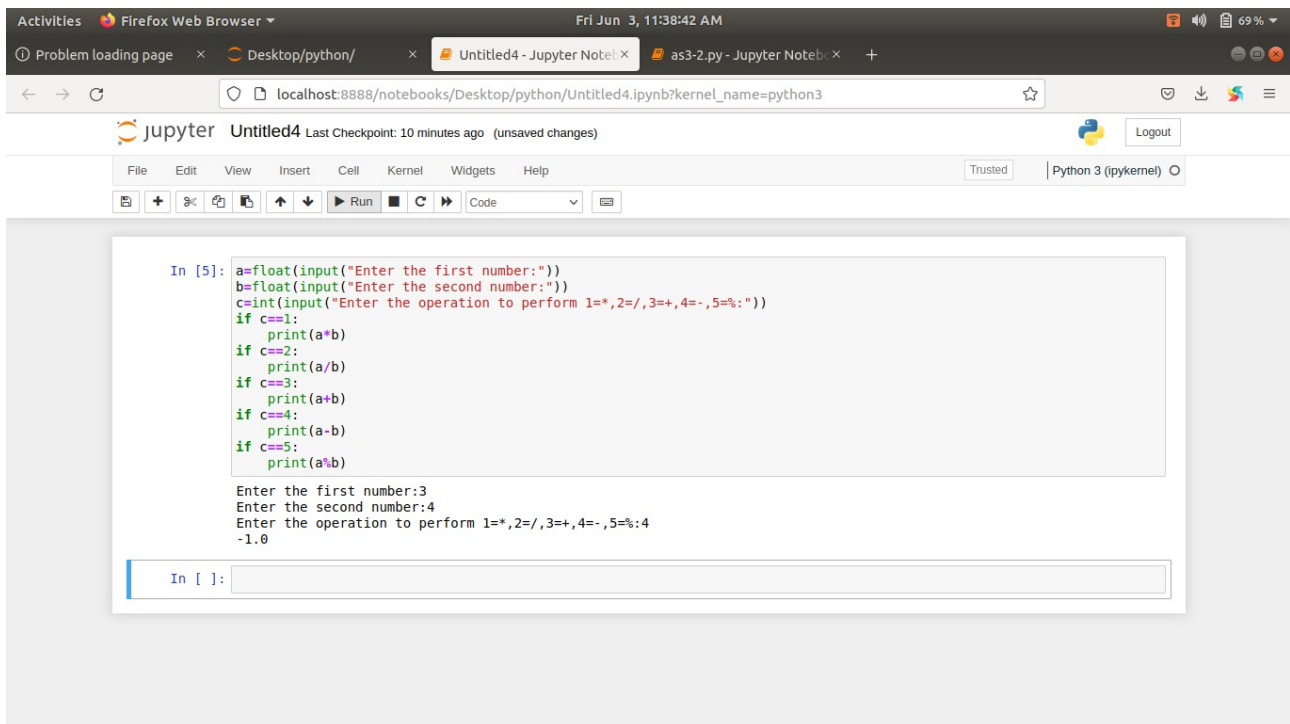
The screenshot displays a Jupyter Notebook environment within a Firefox browser. The code is executed in a cell, and the output is shown below it. The code prompts the user to enter five numbers and a divisor. The input values are: First number: 185, Second number: 3450, Third number: 1235, Fourth number: 1100, Fifth number: 905, and Enter divisor number: 15. The output shows that 15 is a multiple of 3450, with 1 multiple found.

```
In [3]: print("Enter the five numbers below")
a=int(input("First number:"))
b=int(input("Second number:"))
c=int(input("Third number:"))
d=int(input("Fourth number:"))
e=int(input("Fifth number:"))
f=int(input("Enter divisor number:"))
if a%f==0:
    print("Multiples of {} are:".format(f),a)
    print("1 multiples of {} found".format(f))
if b%f==0:
    print("Multiples of {} are:".format(f),b)
    print("1 multiples of {} found".format(f))
if c%f==0:
    print("Multiples of {} are:".format(f),c)
    print("1 multiples of {} found".format(f))
if d%f==0:
    print("Multiples of {} are:".format(f),d)
    print("1 multiples of {} found".format(f))
if e%f==0:
    print("Multiples of {} are:".format(f),e)
    print("1 multiples of {} found".format(f))

Enter the five numbers below
First number:185
Second number:3450
Third number:1235
Fourth number:1100
Fifth number:905
Enter divisor number:15
Multiples of 15 are: 3450
1 multiples of 15 found
```

Q3:CODE

```
a=float(input("Enter the first number:"))
b=float(input("Enter the second number:"))
c=int(input("Enter the operation to perform 1=*,2=/,3=+,4=-,5=%:"))
if c==1:
    print(a*b)
if c==2:
    print(a/b)
if c==3:
    print(a+b)
if c==4:
    print(a-b)
if c==5:
    print(a%b)
```



The screenshot shows a Jupyter Notebook interface in a Firefox web browser. The browser's address bar displays the URL `localhost:8888/notebooks/Desktop/python/Untitled4.ipynb?kernel_name=python3`. The Jupyter interface includes a top bar with the 'jupyter' logo, the notebook name 'Untitled4', and a 'Logout' button. Below this is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. A toolbar contains icons for file operations, a 'Run' button, and a dropdown menu currently set to 'Code'. The main area shows a code cell with the following Python code:

```
In [5]: a=float(input("Enter the first number:"))
        b=float(input("Enter the second number:"))
        c=int(input("Enter the operation to perform 1=*,2=/,3=+,4=-,5=%:"))
        if c==1:
            print(a*b)
        if c==2:
            print(a/b)
        if c==3:
            print(a+b)
        if c==4:
            print(a-b)
        if c==5:
            print(a%b)
```

Below the code, the output of the execution is displayed:

```
Enter the first number:3
Enter the second number:4
Enter the operation to perform 1=*,2=/,3=+,4=-,5=%:4
-1.0
```

At the bottom, there is an input prompt `In []:` followed by an empty text box for the next input.