

Python Worksheet-1

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|------------|--|---|------------|----------|
| Q.1 | Which of the following identifier names are invalid and why? | | | |
| | a) 1marks | b) abc123 | c) if | d) If |
| | e) serial-no | f) marks 1 | g) rollno. | h) xyz\$ |
| | i) 123 | j) _444 | k) else | l) city |
| Q.2 | Write the corresponding Python assignment statements: (Variable declaration/creation) a) Assign 900 to variable price and 20 to variable quantity b) Store the result of product of variable price and quantity into a variable total_price c) Store the values 10,20,30,40,50 into five variables m1, m2, m3, m4, m5. After that store the average in variable named avg d) Assign the values red, green, orange in variables named colour1, colour2, colour3. e) Store the country code +91 in a variable code and mobile no. 9012345678 in a variable named mobile. Now concatenate the country code and mobile no and store in the variable named mobile only. Put a hyphen (-) between country code and mobile no. while storing. f) Store the first name 'Ram' in a variable named first then store the last name 'Sharma' in a variable named last. Now concatenate first name and last name and store in a variable named full g) Store the first name 'Ram' in a variable named first then store the last name 'Sharma' in a variable named last. Now concatenate first name and last name and store in a variable named full (put a space between first name and last name during concatenation). | | | |
| Q.3 | Write the code for following programs: a) WAP to find the area and circumference of a circle. b) WAP to find the area and perimeter of a square. c) WAP to find the area of right-angled triangle. d) WAP to find the volume of cube. e) WAP to find the volume of cuboid. f) WAP to find the area of equilateral triangle. $A = \frac{\sqrt{3}}{4} a^2$ <p style="text-align: center;">Here a is the side of equilateral triangle.</p> g) WAP to enter the area and perimeter of square. h) WAP to find the total bill by entering the cost of a pencil and quantities of pencil. i) WAP to find the area of triangle using heron's formula. $area = \sqrt{s(s-a)(s-b)(s-c)}$ <p style="text-align: center;">and $s=(a+b+c)/2$ here a,b,c are the values of 3 sides</p> j) WAP to enter 2 numbers and then find first number raise to power second number. k) WAP to find the value of diagonal of a rectangle by entering the value of length and breadth. $d = \sqrt{l^2 + b^2}$ l) WAP to enter the temperature in Celsius and convert that into Fahrenheit. [$f=c*9/5+32$] m) WAP to enter the temperature in Fahrenheit and convert that into Celsius. [$c=(f-32)*5/9$] | | | |
| Q.4 | Find the result/output of following codes: | | | |
| | a) | a,b,c=1,2,3 print(a+b,b-c,a*c) | | |
| | b) | x,y,z=10,20,30 x,y,z=x+y,y+z,z+x print(x,y,z) | | |
| | c) | a,b=100,200 a,b=b,a print(a,b) | | |
| | d) | >>>a=65 >>>b=45 >>>a+b >>>a*b | | |