PROGRAMMING BEGINNER TO ADVANCED

Function Overloading

- 1. Write a class with name Area using function overloading that computes the area of a parallelogram, a rhombus and a trapezium. Area of a parallelogram (pg) = b*h, Area of a rhombus (rh) = $\frac{1}{2}*d1*d2$ (d1 & d2 are the diagonals), Area of a trapezium (tr) = $\frac{1}{2}*(a+b)*h$ (where a and b are the parallel sides, h= perpendicular distance the parallel sides)
- 2. Write a class with the name volume using function overloading that computes the volume of a cube, a sphere and a cuboid. Volume of a cube (vc) = s*s*s, Volume of a sphere (vs) = $\frac{4}{3}*\pi*r*r*r$, Volume of a cuboid (vcd) = l*b*h.
- 3. Write a program to interchange the value (swap) of the two numbers a and b and display the result after swapping. Use overload function display (int,int) and display(float,float) for swapping integer and float type values.
- 4. Write a class with the name Perimeter using function overloading that computers the perimeter of a square, a rectangle and circle. Perimeter of a square =4*s, Perimeter of a rectangle = 2*(l+b), Perimeter of a circle= $2*\pi*r$
- 5. Design a class over loading a function calculate() as follows:
- i) void calculate (int m, char ch) with one integer argument and one character argument. It checks if the integer argument is disable by 7 or not , if ch is 's' otherwise , it checks the last digit of the integer argument contains 7 or not.
- ii) void calculate (int a ,int b, char ch) with two integer arguments and one character argument. It displays the greater of integer arguments if ch is 'g' otherwise, displays the smaller of integer arguments.
- 6. Design a class overloading a function display() as follows:
- i) void display(String str, int p) with one string argument and one integer argument. It displays all the uppercase characters if 'p' is 1 (one) otherwise, display all the lowercase characters.
- ii) void display(String str, char char) with one String argument and one character argument. It displays all the vowels if chr is 'v' otherwise, displays all the alphabets.
- 7. Design a class to overload a function manip() as follows:
- i) void manip (String str, int p) with one String argument and one integer argument. It displays the characters of even positions of String, if p is an even number otherwise, displays the characters of odd positions.
- ii) void mainip (int a, char ch) with one integer argument and one character argument
- 8. Design a class to overload a function absolute() to convert the given value absolute value. Functions are **int absolute(int var) & float absolute(float var)**. **Output:** Absolute value of -5 = 5 Absolute value of 5.5 = 5.5

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