**Level 1**

1. What would be the value of 'a':

a. int a = 10/45\*23%45/(45%4\*21)

b. float a = 10+45.0\*23-45+(4\*21.0)

2. True or false (0 or not):

a. 4>5 && 5>4 0

b. 4>5 || 5>4 1

c. (232+23\*1233) || 0 1

d. (232+23\*1233) && 0 0

3. If a is 15, then what would be the value of:

printf("%d",++a); 16

printf("%d",a++); 15

printf("%d",--a); 14

printf("%d",a--); 15

4. What would be the output of:

printf("%d\n",1==5==5); 0

5. What is the error in:

int a;  
3=a

**Level 2**

1. Length and breadth of a rectangle are 5 and 7 respectively. Write a program to calculate the area and perimeter of the rectangle.

2. Write a program to input the value of the radius of a circle from keyboard and then calculate its perimeter and area.

3. Write a program to enter a 4 digit number from keyboard. Add 8 to the number and then divide it by 3. Now, the modulus of that number is taken with 5 and then multiply the resultant value by 5. Display the final result.

4. Now, solve the above question using assignment operators (eg. +=, -=, \*=).

5. Enter two numbers from keyboard. Write a program to check if the two numbers are equal.

6. Write a program to enter the values of two variables 'a' and 'b' from keyboard and then check if both the conditions 'a < 50' and 'a < b' are true.

7. Now solve the above question to check if at least one of the conditions 'a < 50' and 'a < b' is true.

8. If the marks of Robert in three subjects are 78,45 and 62 respectively (each out of 100 ), write a program to calculate his total marks and percentage marks.

9. Write a program to enter the values of two variables from the keyboard and then interchange the values of the two variables. E.g.-  
If entered value of x is 5 and y is 10 then  
**printf("%d %d",x,y )**  
should print **10 5**.

10. Take input of some length in meter and covert it to feet and inches.

11. Write a program to convert Fahrenheit into Celsius.

12. The total number of students in a class are 45 out of which 25 are boys. If 80% of the total students secured grade 'A' out of which 15 are boys, then write a program to calculate the total number of girls getting grade 'A'

**Level 3**

1. Write a program to calculate the sum of the first and the second last digit of a 5 digit number entered from the keyboard.
2. Suppose you entered a 4 digit number. Write a program to display a number whose digits are 2 greater than the corresponding digits of the entered number.  
   For example, if he entered number is 5696, then the displayed number should be 7818.
3. Write a program to calculate the sum of the digits of a 3-digit number which is entered from keyboard. E.g.-  
   INPUT : 132        OUTPUT : 6
4. Write a program to reverse a 3-digit number which is entered from keyboard. E.g.-  
   INPUT : 132        OUTPUT : 231