Datatype Problems

1. Write a C program to print the following characters in a reverse way.

Eg : 'P', 'P', 'S' printed as 'S' 'P' 'P'

1. Write a C program to compute the perimeter and area of a rectangle, Circle.
2. Write a C program to find the size of different data types.
3. Write a C program to find Simple Interest.
4. Write a C program to read and print the values of variables of different data types(int, short int,longint,long long int(decimal,octal,hexadecimal),char,float,double , long double)
5. Write a C program to convert specified days into years, weeks and days.     Note: Ignore leap year.
6. Write a C program that accepts 3 integers from the user

and calculate the sum  ,Product  average of these  3 integers

1. Write a C program that accepts an  item's weight  ,Cost and  number of units purchased  and calculate the  the total weight and total cost  of purchase.
2. Write a C program that accepts an employee's ID, total worked hours of a month and the amount he received per hour.

Print the employee's ID and salary (with two decimal places) of a particular month.

  10.Write a C program to calculate a bike's average consumption     from the given total distance(integer value) travelled (in km)and spent fuel (in liters, float number - 2 decimal point).

11.Write a C program to read two co-ordinate points and calculate the distance between the two points.

12.Write a C program to convert temperature from foreinheit to celcius.

13.Write a C program to convert a given integer (in seconds) to hours, minutes and seconds.

14.Write a C program to convert a given integer (in days) to years, months and days,  assumes that all months have 30 days and all years have 365 days.

15.Write a C program that read 5 numbers and counts the number of positive numbers and negative numbers.

16.Write a C program that read 5 numbers and find the sum of  of positive numbers and negative numbers.

17.Write a C program to input length in centimeter and convert it to meter and kilometer.

18.Write a C program to input  time in seconds and print in standard time format HH:MM:SS.

Arithmetic Operators

19.  Program to extract the digit in one’s place of an integer

      Eg I/p=123   O/P=3

 20 . Program to print the number excluding its last two digits

           Eg I/P =  1234 O/P =12

21 . Program to multiply 10,5 without using \* operator

22.  Program to swap two numbers without using temperory variable.

23.  Program to find cube of a number without using built-in function and with using built-in function

24.  Program to convert feets to inches

25 . Program to Print How Many Inputs are taken from Keyboard using Scanf.

26 .Program to read basic salary,Percentage (%)of DA,% of HRA (in basic salary) and calculate Net salary

27 . Program to find sum of n integers Eg: sum of 10 integers=1+2+3+4+…….10=55

28. Program to print the memory address of a variable in C

29.Program to input two angles from user and find third angle of the triangle

30. Program to find roots of a Quadratic Equation

Using Built-in Functions

31. Find square ,cube, power, squareroot, floor ,ceil of a number using built-in function.

32. Generate a random number using built-in Function

Bitwise Operators

33. Program to read two numbers and demonstrate all bitwise operators using them

34. Program to flip bits of a binary number

35. Program to find no. of bits in an integer number

36. Program to input any number from user and check whether the Least Significant Bit (LSB) of the given number is set (1) or not (0).

37. Program to set LSB of a number

38.Program to clear LSB of a number

39.Program to toggle LSB of a number

40.program to input any number from user and check whether the Most Significant Bit (LSB) of the given

number is set (1) or not (0)

41.Program to check nth bit of a number( whether it is 0 or 1

Conditional Operators

42.Program to find maximum of two numbers using conditional operator

43.Program to find maximum of three numbers using conditional operator

44. Program to find maximum of four numbers using conditional operator

45. Program to check whether the number is even or odd using conditional operators

46.Program to check whether the entered character is alphabet or not using conditional operator

47. Program to check whether the entered character is digit or not using conditional operator

48. Program to read Name and Gender of a person and print Mr. or Mrs before the name

Note: Format specifier to read name is %s(don’t give space separated names)

Simple If

  49.Check whether a number is positive

 50. check whether a number is odd

51.check whether a person is eligible for vote in INDIA

52.Check whether a number is positive, negative or zero.

53.Check whether number is divisible by 3 and 5

54.Check whether the given character is alphabet.

If Else

55.check whether number is even or odd.

56.Check whether a number is positive or negative

57. find biggest of 2 numbers.

58. Biggest of 3 numbers

59. Check whether the given character is alphabet or not

60. Check whether the given character is uppercase or lowercase alphabet

61. Check whether the given character is alphabet ,digit or any other symbol.

Else If ladder

62.  Write a program that declares Class awarded for a given percentage of marks, where

 mark<40%= Failed , 40% to <60% =Second class, 60 % to70% = First class , >=70%= Distinction.

  Read percentage from standard input

63. Write a C program to input marks of 3 subjects Physics, Mathematics and PPS, calculate

percentage and grade according to given conditions:

If percentage >= 90% : Grade A

If percentage >= 80% : Grade B

If percentage >= 70% : Grade C

If percentage >= 60% : Grade D

If percentage >= 40% : Grade E

If percentage < 40% : Grade F

Switch

64.Write a C program, which takes a number (1-7)  from the user,  and prints the day of the week as per the number(use Switch Statement)(1-Monday,2-Tuesday…7-Sunday)

65.Write a C program, which takes two integer operands and one operator from the user, performs the operation and then prints the result.

 (Consider the operators +,-,\*, /, % and use Switch Statement)

66.Write a C program, which takes a character  (F or M) from the user and prints the Gender as Male or Female

While Loop

67.Print the  natural numbers from 1 to n(read n through scanf)

68.Print even numbers from 200 to 300

69.Count the digits of a given number

70.To find the reverse of a given number(Egi/p 6758 o/p=8576)

71.To check the given number is palindrome or not

Do while loop

72 .Print alphabets from a to z

73.Print even numbers from 200 to 300

74.Read 10 numbers and find the sum of negative numbers

For Loop

75.Program to print multiplication table of a given number. For example,

3 x 1=3

3 x 2=6

.

.

3 x 10 = 30

76. To find whether a number is even or odd using bitwise operators.

Arrays

77. Sum and average of Array Elements

78. Maximum of Array elements.

79. Minimum of Array elements

80.C program to search for array elements.

81.Addition of matrices.

82.Insert an element in a particular array position.

83. Program to read and print 2-D Array elements.

Strings

84. Program using string inbuilt functions(strlen ,strcat, strcmp, strncat, strnpy)

85.Program to read multiple line strings.

86.Program to print number of characters, words and lines in a text.

Structure

87. Program to read and print complex numbers using structures.

88. Program to read student details rno,name ,marks using structures.

89.Read and print employee details using structures.(Emp name,eno,salary)

89.Program to read and print student details using nested structures.

90. Program to print the size of a structure .