

HOLIDAY HOMEWORK
PRACTICAL QUESTIONS

1. Write a program to accept radius of circle and display it's area and circumference.
2. Write a program to find the average marks of five subjects. (Accept marks from user)
3. Write a program to find the area of right angle triangle. (Accept base and height from user)
4. Write a program to print the following pattern without loop.
*
* *
* * *
* * * *
5. Write a program to find the volume of sphere. (Accept radius from the user)
6. Write a code to convert the string "Practice" into list.
7. Write a code to make copy of following list using copy function.
a = [1,2,3,4]
8. Write a program to create list of the following (take input from the user)
 - a. Any five students name
 - b. Any five numbers
 - c. Any five alphabets
 - d. Any five name of colors.
9. Write a program to accept 10 numbers from the user, if the number is odd, and then add that number to the list.

(input numbers are : 1,2,3,4,5,6,7,8,9,10

L = [1, 3, 5, 7, 9])

10. Write a program to find the largest number from the following list.(without using inbuilt function)
A = [23, 12, 45, 67, 55]
11. Write a program to find the second largest number from the following list.
A = [23, 12, 45, 67, 55]
12. Write code to arrange elements of following list in increasing order.
A = [23,12,45,32,67,33]
13. Write a program to delete/remove all the negative elements from the list.
14. Write a program to delete/remove all the odd numbers from the list.
15. Write a program to delete/remove all the numbers less than 10 from the list.
16. Write a program to check whether a number (accepted from user) is present in a list.
17. Write a program to input a number and count the occurrence of that number in the given list.
B = [34,21,3,12,34,56,76,5,4,21,12,34]
18. Write a program to separate the character and numeric value from a given list and store them in a separate list.
A = [1,'f',2,'b',3,4,'h','j',6,9,0,'k']
19. Write a code to store following String in a variable named 'str'.
This is Amit's Blog
20. Write a code to create empty string 'str1'
21. Write a code to assign a string "Hello World" to a string variable named "str1".
22. Write a program to display each character of the following string in separate line using 'for' loop.
str1 = Welcome to My Blog
23. Write a program to display each character of the following string in separate line using 'while' loop.
str1 = Welcome to My Blog

24. Write the positive and negative index value of 'B' in the following string.
"Welcome to my Blog"
25. Write a program to count the length of string without using inbuilt function.
26. Write the code to join string 'str1' and 'str2' and store the result in variable 'str3'
27. Write a program to accept string and display total number of alphabets.
28. Write a program to accept a string and display the sum of the digits, if any present in string.

For example:

Input string : My position is 1st and my friend come on 4th

Output : 5

29. Write a program to accept a string and convert it into lowercase.
30. Write a program to count the number of lowercase and uppercase character in a string accepted from the user.
31. Write a program to accept a string and display each word and it's length.
32. Write a program to accept a string and display string with capital letter of each word.
For example, if input string is : welcome to my blog
Output string : Welcome To My Blog
33. Write a program to replace all the word 'do' with 'done' in the following string.
str1 = "I do you do and we all will do"
34. Write a program to accept a string and display in reverse order.
35. Write a program to accept a string and display 20 times.
36. Write a program to accept a string in python and display the entire string in upper case.
37. Write a program to accept a string and display last three characters of the string.
38. Write a program to accept a string in python and display the entire string in lower case.
39. Write a program to accept a string and display the entire string with first and last character in upper case.
40. Write a program to accept a string and display first three characters of the string.
41. Write a function in python which accept a string as argument and display total number of vowels.
42. Write a function in python which accept a string as argument and display total number of lower case characters.
43. Write a function in python which accept a string as argument and display total number of digits.
44. Write a program to print first 10 natural number.
45. Write a program to print first 10 even numbers.
46. Write a program to print first 10 odd numbers.
47. Write a program to print first 10 even numbers in reverse order.
48. Write a program to print table of a number accepted from user.
49. Write a program to display product of the digits of a number accepted from the user.
50. Write a program to find the factorial of a number.
51. Write a program to find the sum of the digits of a number accepted from user
52. Write a program to check whether a number is prime or not.
53. Write program to print the following pattern.

a)1

```

1      2
1      2      3
1      2      3      4
1      2      3      4      5

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b)

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*      *      *      *      *
*      *      *      *
*      *
*

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54. Accept 10 numbers from the user and display their average.

55. Write a program to print all prime numbers that fall between two numbers including both(accept two numbers from the user)
56. Write a program to display sum of odd numbers and even numbers that fall between 12 and 37(including both numbers)
57. Write a program to display all the numbers which are divisible by 11 but not by 2 between 100 and 500.
58. Write a program to print numbers from 1 to 20 except multiple of 2 & 3.
59. Write a program that keep on accepting number from the user until user enters Zero. Display the sum and average of all the numbers.

60. Write a program to print the following pattern

```
55555
4444
333
22
1
```

61. Accept a number and check whether it is palindrome or not.
62. Write a program to accept a number and check whether it is a perfect number or not. (Perfect number is a positive integer which is equal to the sum of its divisors like divisors of 6 are 1,2,3, and sum of divisors is also 6, so 6 is the perfect number)
63. Write a program to find the sum of the following series(accept values of x and n from user)

$$1 + x/1! + x^2/2! + \dots \dots \dots x^n/n!$$

64. Write a program to find the sum of following (Accept values of a, r, n from user)

$$a + ar + ar^2 + ar^3 + \dots \dots \dots ar^n$$

65. Write a function to display prime numbers below any number accepted from the user.
66. Write a program to convert temperature in Fahrenheit to Celsius.
67. Write a program to accept two numbers from the user and display sum of even numbers between them(including both)
68. Write a program to reverse a number.
69. Write a program to print the following pattern.

```
A
B C
D E F
G H I J
```

70. Write a program to print the following pattern.

```
1 2 3 4
1 2 3
1 2
1
```