

ARMY PUBLIC SCHOOL KALUCHAK

HOLIDAYS HOMEWORK

SUBJECT- COMPUTER SCIENCE

CLASS XII (2022-23)

Write the programmes in practical ruled sheets for practical file.

STRINGS

1. WAP to that reads a line then counts how many times a substring appears in the line and display the count.
2. WAP that reads a string and then prints a string that capitalises every other letter in the string.
3. Write a loop that prints out the index of every 'i' in 'Mississippi'.
4. WAP that prompts a user for their 'password' and then determines if the password is valid or not . A password is said to be valid if it starts with a digit and it has length six or more.

If your program determines that the user entered password is not valid , it should print a message saying so. Otherwise, it should print a message saying that it has accepted the user entered password.

5. Using the string truehuman= "Loves One and All" , what would be returned by following string slices?

- a) truehuman[-7:-3]
- b) truehuman[-3:]
- c) truehuman[-9:-3]
- d) truehuman[:10]
- e) truehuman[12:]
- f) truehuman[10:-12]
- g) truehuman[9:]+ truehuman[:9]
- h) truehuman[:9]+truehuman[9:]

LIST

6. WAP that returns the largest even numbers in the list of integers. If there is no even number in the input,then print "No even element".

7. WAP to print sum of series

$$1+(1+2)+(1+2+3)+(1+2+3+4)+....$$

If n=5 , OUTPUT is 35.

8. WAP to find the median for a given list

e.g. 23,9,14,2,28,19,3,15,9,25,2,4,9

Your code should print the output as 19.

9. WAP to find the range from a given list

If list is 23,9,14,2,28,19,3,15,9,25,2,49

The code should print 26.

LOOPING

10. WAP from the following pattern

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*  
  
*  *  
  
*  *  *
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11. WAP to print fibonacci series of n numbers.

12. WAP to test if a number is equal to the sum of the cubes of its digit.

TUPLE

13. WAP to print alternate elements of the tuple T.

14. WAP that inputs a tuple with each elements of it as another tuple.If then prints the elements of the tuple in increasing order of their lengths.

DICTIONARY

15. WAP to remove duplicate from dictionary.