



Practice Set : Function & Recursion

Function :-

Q1. Write a program to call a function to print "hello world" .

Q2. Write a program to call a function that returns the addition of two numbers and print the result.

Input: a=58 b= 20

Output : 78

Q3. Write a program to call a function that returns the subtraction of two numbers and print the result

Input: a=45 b=15

Output: 30

Q4. Write a program to call a function that returns the multiplication of two numbers and print the result

Input: a= 150 b = 2

Output: 300

Q5 write a program to call a function that returns the quotient and remainder of the division of two numbers and print the result

Input: a= 240 b =8

Output: quotient =30 remainder=0

Q6. Write a program to call a function that take two user inputs and pass it to a function that returns the addition of these numbers .

Input: a = 33 b = 26

Output: 59

Q7. Write a program to call a function that take two user inputs and returns the multiplication of the two numbers

Input : a = 11 b = 11

Output: 121

Q8. Write a program to call a function that take user input then pass it to a function that tells if it is odd or even.

Input: a = 97

Output: odd

Q9. Write a program to call a function that takes user input and tells if it is prime or not.

Input : a = 7

Output : yes it is prime

Q10. Write a program to call a function that takes user input and pass it to a function that prints its table.

Input: a =3

Output: 3*1=3 3*10=30

Q11. Write a program to call a function that takes user input then pass it to a function that prints its reverse .

Input : 756

Output : 657

Q12. Write a program to call a function that range from the user then call a function that check if a number is Fibonacci within the given range.

Input: a = 2 b = 10

Output: 2 3 5 8

Q13. Write a program to call a function that prints the following pattern:

a. Input : n=5.

b. Input :n=3.

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Q14. Write a program to take user input and pass it to a function that returns its factorial.

Input: n = 5

Output: 120

Q15. Write a program to take user input and pass it to two functions one of which prints it's reverse and the other checks if the number is palindrome or not.

Input: 123

Output: 321 no it's not a palindrome

Q16. Write a program to take user input and pass it to three functions for counting digits, calculating power and checking if the number is Armstrong or not.

Input: 9474

Output : yes it is an Armstrong number

Q17. Write a program to print the following pattern :

Input: 5

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ABCDE
1234
123
12
F
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Q18. Write a program to take user input and pass it to three functions one for calculating remainder, one for calculating factorial of its digits and the third one to check if the number is strong or not.

Input : 145

Output: yes it is a strong number

Recursion:-

Q1.Print numbers from **1 to 10** Using Recursion.

Output: 1 2 3 4 5 6 7 8 9 10

Q2.Print numbers from **10 to 1** Using Recursion.

Output: 10 9 8 7 6 5 4 3 2 1

Q3.Take a number from user and print the sum of all number Using Recursion.

Input: N = 4

Output : 10 // (1+2+3+4)

Q4.WAP to take a number from user and print the factorial of given number. Using Recursion.

Input: N = 3

Output : 6 // (1 x 2 x 3)

Q5.Write a program to take two number from user one as a base ,second as a power calculate and print.Using recursion.

Input : base =2 power =3

Output : 8 \\ (2 x 2 x 2 = 8)

Q6.Write a program to take a number from user and count the digit present in that number .

Input : num = 1835

Output : Digit count = 4

Q7.Write a program to take a number from user and reverse that number .

Input : num = 435

Output : Reverse num = 534

Q8..Write a program to take a number from user and print fibonacci number till user's input

Input : 8

Output : 0 1 1 2 3 5 8