

Program On Input/Output and Variables & Data Types

1. Write a program to display the message "Hello World".
2. Write Program to accept student details from user as student name, roll number, course, city Display all information after accepting info using single print statement.

Input: Enter Student Name: Ajay
Enter Roll Number: 12345
Enter Course: Computer Science
Enter City: Pune

Output: Student Name: Ajay,
Roll Number: 12345,
Course: Computer Science,
City: Pune

3. Create a program to add two numbers provided by the user and display the result.

Input: Number 1: 8
Number 2: 15

Output: The result of adding 8 and 15 is: 23

4. Write a program to multiply two numbers provided by the user and display the result.

Input: Number 1: 6
Number 2: 7

Output: The result of multiplying 6 and 7 is: 42

5. Write a program to accept marks of 3 subjects and calculate and display total and percentage.

Input: Marks in Subject 1: 85
Marks in Subject 2: 90
Marks in Subject 3: 78

Output: Total Marks: 253, Percentage: 84.33%

6. Write Program to print size of int, float, double, etc

Output: Size of int: 4 bytes
Size of float: 4 bytes
Size of double: 8 bytes

7. Write Program to print ASCII table (0-127).
8. Write a program which accept radius of circle from user and calculate its area.
Consider value of PI as 3.14. (Area = PI * Radius * Radius)

Input : 1.12
Output: 3.940816

9. Write a program which accept width & height of rectangle from user and calculate its area. (Area = Width * Height)

Input:Width: 7.5 Height: 4.2
Output:Area: 31.5

10. Write a program which accept distance in kilometre and convert it into meter.
(1 kilometre = 1000 Meter)

Input: Distance: 5.7 km
Output: Distance in meters: 5700 meters

11. Write a program which accept temperature in Fahrenheit and convert it into Celsius.
(1 Celsius = (Fahrenheit -32) * (5/9))

Input: Temperature: 98.6°F
Output: Temperature in Celsius: 37.00°C

Program OnSelection Statements

1. Write a program to check if a given number is even or odd.

Input: Enter number: 27
Output: 27 is odd number

2. Create a program to check if a given number is positive or negative.

Input: Enter number: -27
Output: 27 is negative number

3. Write a program to find the maximum number between two given numbers.

Input: Enter two number: 23 45
Output: The greater number is : 45

4. Develop a program to find the maximum number among three given numbers.

Input: Enter three number: 223 415 112
Output: The greater number is : 415

5. Accept one number and check whether is divisible by 7 or not.

Input: Enter number: 49
Output: 49 is divisible by 7

6. Write a program that accepts a day number (1 to 7) and prints the corresponding day of the week

Input: Enter number: 4 Output:The day of the week is: Wednesday

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| Input: | Enter number: 2 | Output: The day of the week is: Monday |
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7. Create a program that accepts a month number (1 to 12) and prints the corresponding month name.

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| Input: | Month Number: 5 |
| Output: | The month is: May |

8. Accept one number from user if number is less than 10 then print "Hello" otherwise print "world".

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| Input: Number: 7 | Output: "Hello" |
| Input: Number: 12 | Output: "world" |

9. Accept one character from user and check whether that character is vowel (a,e,i,o,u) or not.

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| Input: E | Output: TRUE |
| Input: d | Output: FALSE |

10. Accept one character from user and convert case of that character.

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| Input : a | Output : A |
| Input : D | Output : d |

Program On Iteration (Loop)

1. Use a loop to print the numbers from 101 to 110.
2. Write a program to print 10 to 1 number on screen
3. Write Program to display table of numbers of any given range.
4. Accept one number from user and print that number of * on screen.
5. Write a program to print the letters from H to N using a loop.
6. Write a program to calculate and print the factorial of a given number.
7. Create a program to print the multiplication table of a given number.
8. Write a program to print the reverse multiplication table of a given number.
9. Write a program to calculate the sum of 10 numbers inputted by the user.
10. Write Program to find minimum & maximum no. from 10 inputted numbers.
11. Write Program to make sum of numbers till user enter zero or negative number.
(Use break/continue & unconditional loop).
12. Accept two numbers from user and display first number in second number of times.

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| Input : 10 5 |
| Output : 10 10 10 10 10 |

13. Write a program which accept number from user and display its factors in decreasing order.

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| Input : 12 |
| Output : 6 4 3 2 1 |

14. Write a program which accept number from user and display all its non factors.

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| Input : 12 Output : 5 7 8 9 10 11 |
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15. Write a program which accept number from user and display its multiplication of factors.

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| Input : 12 Output : 144 (1 * 2 * 3 * 4 * 6) |
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16. Write a program which accept number from user and return difference between summation of all its factors and non factors.

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| Input : 12 Output : -34 (16 -50) |
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Program On Digit

17. Write a program to accept a number from the user and display its digits in reverse order.
18. Write a program that accepts a number from the user, sums its digits, and displays them in the following format .

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| Input : 795 Output: 7+9+5 =21 |
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19. Write a program which accept number from user and display its digits in reverse order.

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| Input: 1234 Output: 4 3 2 1 |
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20. Write a program which accept number from user and count frequency of 2 in it.

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| Input : 1235 Output : 1 Input : 122122 Output: 4 |
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21. Write a program which accept number from user and check whether it contains 2 in it or not.

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| Input : 135 Output : There is no Two Input : 122122 Output: It Contains Two |
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22. Write a program which accept number from user and return the count of even digits.

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| Input :12345 Output : 2 |
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23. Write a program which accept number from user and return difference between summation of even digits and summation of odd digits.

Input : 12345
Output : -3 (6- 9)

24. Write a program which accept number from user and return multiplication of all digits

Input : 12345
Output : 120

13. Half Diamond Star Pattern

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14. Half Diamond Star Pattern Inverted

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15. Write a program to print hollow diamond star pattern

[illegible]