PG-DAC September 2023

C++Programming

Assignment - 4

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1. Write a C++ program that accepts the user's first and last name and prints them in reverse order with a space between them.
   Sample Output:
   Print the name in reverse where last name comes first:

   Input First Name: Alexandra
   Input Last Name: Abramov
   Name in reverse is: Abramov Alexandra

2. Write a C++ program to calculate the sum of all even and odd numbers in an array.
   Sample Output:
   Original array: 1 2 3 4 5 6 7 8
   Sum of all even and odd numbers: 20,16

3. Write a C++ program to print the code (ASCII code / Unicode code etc.) of a given character.
   Sample Output:
   Print code (ASCII code / Unicode code etc.) of a given character:

   Input a character: a
   The ASCII value of a is: 97
   The character for the ASCII value 97 is: a

4. Write a C++ program to enter P, T, R and calculate Simple Interest.
   Sample Output:
   Calculate the Simple Interest :

   Input the Principle: 20000
   Input the Rate of Interest: 10
   Input the Time: 1.5
   The Simple interest for the amount 20000 for 1 years @ 10 % is: 2000

5. Write a C++ program to enter P, T, R and calculate compound interest.
   Sample Output:
   Calculate the Compound Interest :

   Input the Principle: 20000
   Input the Rate of Interest: 10
   Input the Time: 1.5
   The Interest after compounded for the amount 20000 for 1.5 years @ 10% is: 3073.8

6. Write a C++ program to add two binary numbers.
   Sample Output:
   Addition of two binary numbers:

   Input the 1st binary number: 1010
   Input the 2nd binary number: 0011
   The sum of two binary numbers is: 1101

7. Write a C++ program to find the largest element of a given array of integers.

8. Write a C++ program to sort a given unsorted array of integers, in wave form.
   Note: An array is in wave form when array[0] >= array[1] <= array[2] >= array[3] <= array[4] >= . . .

9. Write a C++ program to separate even and odd numbers in an array of integers. Put all even numbers first, and then odd numbers.

10. Write a C++ program to find the smallest element of a given array of integers.