```
6 void checkVote(int);
8 int main()
       int age;
    // Prompt the user to enter their age
printf("Enter your age: ");
      scanf("%d", &age);
       checkVote(age);
   void checkVote(int age)
       if (age >= 18)
            printf("You are eligible to vote.\n");
            printf("You are not eligible to vote.\n");
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/task12
• $ ./question1
Enter your age: 19
You are eligible to vote.

manish@fedora: ~/vs-code/bca-programming-repo/C/task12
• $ ./question1
Enter your age: 12
You are not eligible to vote.

manish@fedora: ~/vs-code/bca-programming-repo/C/task12
```

```
// WAP to find the sum of natural numbers using recursion.

// include <stdio.h>
// Function to find the sum of natural numbers using recursion
int naturalSum(int);

int main()

// {

int n;

// Prompt the user to enter a number
printf("Enter a number: ");
scanf("%d", &n);

// Display the sum of first n natural numbers
printf("The sum of the first %d natural numbers is %d\n", n, naturalSum(n));

return 0;
}

// Recursive function to find the sum of natural numbers
int naturalSum(int n)

{

if (n == 0)

{

return 0;
}
}
else
{

return n + naturalSum(n - 1);
}

return n + naturalSum(n - 1);
}

return n + naturalSum(n - 1);
}
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/task12
• $ ./question2
Enter a number: 10
The sum of the first 10 natural numbers is 55

manish@fedora: ~/vs-code/bca-programming-repo/C/task12
• $ []
```

```
1 // WAP to swap two numbers using call by value method.
   // Function prototype for swapping two numbers
   void swap(int a, int b);
   int main()
        printf("Enter two numbers: ");
        scanf("%d %d", &a, &b);
        swap(a, b);
       // Display the original values of a and b (not swapped)
        printf("Original values:\na = %d b = %d\n", a, b);
        return 0;
   void swap(int a, int b)
        // Swap the values of a and b
       int temp = a;
       b = temp;
       // Display the values after swapping
        printf("Values after swapping:\na = %d b = %d\n", a, b);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/task12
• $ ./question3
Enter two numbers: 3 5
Values after swapping:
a = 5 b = 3
Original values:
a = 3 b = 5
```

```
1 // WAP to swap two numbers using call by reference method.
   #include <stdio.h>
5 void swap(int *a, int *b);
   int main()
        printf("Enter two numbers: ");
        scanf("%d %d", &a, &b);
        swap(&a, &b);
       printf("Original values:\na = %d b = %d\n", a, b);
25 void swap(int *a, int *b)
       int temp = *a;
        *b = temp;
        printf("Values after swapping:\na = %d b = %d\n", *a, *b);
```

```
manish@fedora: ~/vs-code/bca-programming-repo/C/task12

• $ ./question4
Enter two numbers: 2 3
Values after swapping:
a = 3 b = 2
Original values:
a = 3 b = 2
```