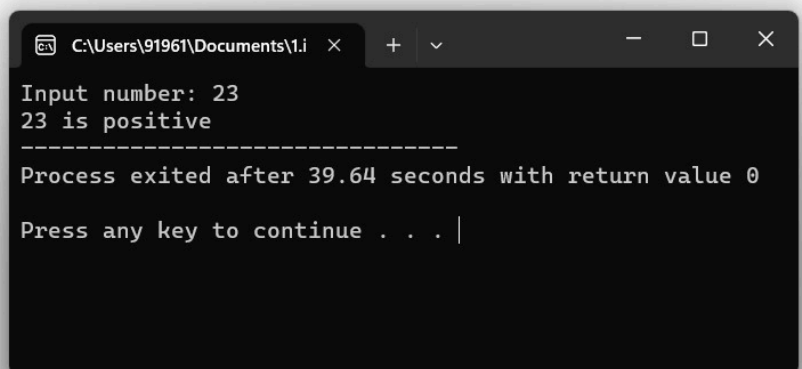


1.input number negative and positive.cpp

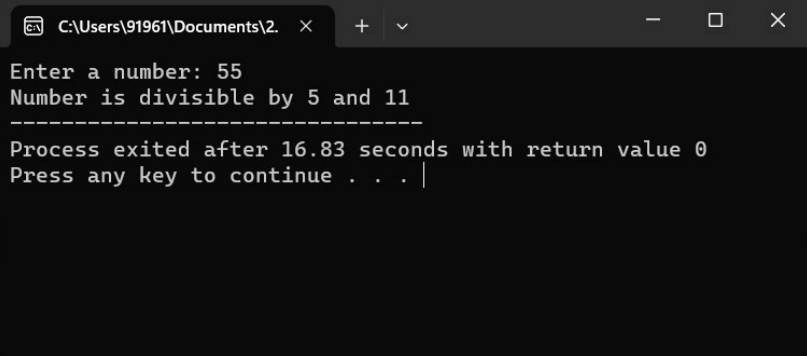
```
1 #include <stdio.h>
2
3 int main() {
4     int num;
5
6     printf("Input number: ");
7     scanf("%d", &num);
8
9     if (num > 0) {
10        printf("%d is positive", num);
11    }
12    else if (num < 0) {
13        printf("%d is negative", num);
14    }
15    else {
16        printf("The number is zero");
17    }
18
19    return 0;
20 }
21
```



```
C:\Users\91961\Documents\1.i x + v - □ ×
Input number: 23
23 is positive
-----
Process exited after 39.64 seconds with return value 0
Press any key to continue . . . |
```

2.divisible by 5and11.cpp

```
1  #include <stdio.h>
2
3  int main() {
4      int num;
5
6      printf("Enter a number: ");
7      scanf("%d", &num);
8
9      if (num % 5 == 0 && num % 11 == 0) {
10         printf("Number is divisible by 5 and 11");
11     } else {
12         printf("Number is not divisible by 5 and 11");
13     }
14
15     return 0;
16 }
```



```
C:\Users\91961\Documents\2.  x  +  v  -  □  x

Enter a number: 55
Number is divisible by 5 and 11
-----
Process exited after 16.83 seconds with return value 0
Press any key to continue . . . |
```

3.logic check.cpp

```
1 #include <stdio.h>
2
3 int main() {
4     char ch;
5     printf("Enter a character: ");
6     scanf("%c", &ch);
7
8     if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {
9         printf("'%'c' is an alphabet\n", ch);
10    } else {
11        printf("'%'c' is not an alphabet\n", ch);
12    }
13    return 0;
14 }
```

C:\Users\91961\Documents\3. x + v - □ ×

Enter a character: a
'a' is an alphabet

Process exited after 123.9 seconds with return value 0
Press any key to continue . . . |

```
4.vowels.cpp
1  #include <stdio.h>
2  #include <string.h>
3
4  int main()
5  {
6      char str[100];
7      int count = 0, len, i;
8
9      printf("Enter a string: ");
10     scanf("%s", str);
11
12     len = strlen(str);
13
14     for(i = 0; i < len; i++)
15     {
16         if(str[i] == 'a' || str[i] == 'e' || str[i] == 'i' || str[i] == 'o' || str[i] == 'u' || str[i] == 'A' || str[i] == 'E' || str[i] == 'I' || str[i] == 'O' || str[i] == 'U')
17         {
18             count++;
19         }
20     }
21
22     printf("Number of vowels in the string: %d\n", count);
23
24     return 0;
25 }
```

```
C:\Users\91961\Documents\4.
Enter a string: a
Number of vowels in the string: 1
-----
Process exited after 43.03 seconds with return value 0
Press any key to continue . . . |
```

```

5.alphabet.cpp
1  #include <stdio.h>
2
3  int main() {
4      char c;
5      printf("Enter a character: ");
6      scanf("%c", &c);
7
8      if (c >= 'A' && c <= 'Z') {
9          printf("%c' is an uppercase alphabet.\n", c);
10     } else if (c >= 'a' && c <= 'z') {
11         printf("%c' is a lowercase alphabet.\n", c);
12     } else {
13         printf("%c' is not an alphabet.\n", c);
14     }
15
16     return 0;
17 }

```

```

C:\Users\91961\Documents\5.  x  +  v  -  □  ×
Enter a character: c
'c' is a lowercase alphabet.
-----
Process exited after 14.02 seconds with return value 0
Press any key to continue . . . |

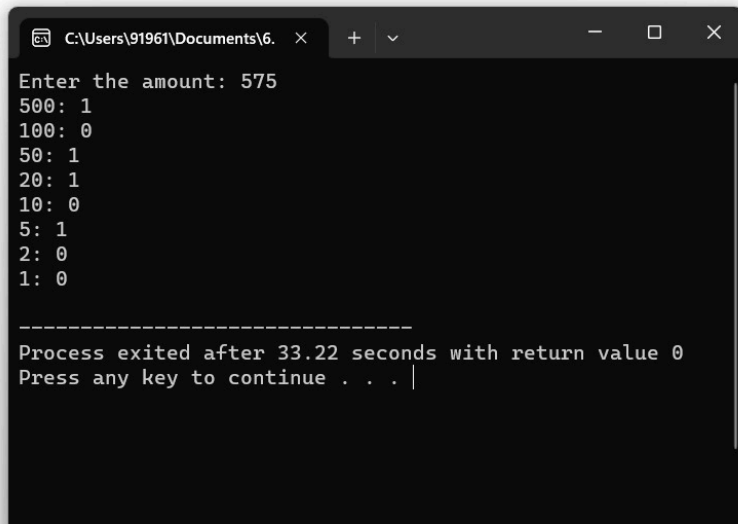
```

6.print minimum number of notes.cpp

```
1  #include <stdio.h>
2
3  int main() {
4      int amount, notes;
5
6      // Ask user for input amount
7      printf("Enter the amount: ");
8      scanf("%d", &amount);
9
10     // Calculate the number of 500 rupee notes
11     notes = amount / 500;
12     printf("500: %d\n", notes);
13
14     // Calculate the number of 100 rupee notes
15     amount = amount % 500;
16     notes = amount / 100;
17     printf("100: %d\n", notes);
18
19     // Calculate the number of 50 rupee notes
20     amount = amount % 100;
21     notes = amount / 50;
22     printf("50: %d\n", notes);
23
24     // Calculate the number of 20 rupee notes
25     amount = amount % 50;
26     notes = amount / 20;
27     printf("20: %d\n", notes);
28
29     // Calculate the number of 10 rupee notes
30     amount = amount % 20;
31     notes = amount / 10;
32     printf("10: %d\n", notes);
```

6.print minimum number of notes.cpp

```
19 // Calculate the number of 50 rupee notes
20 amount = amount % 100;
21 notes = amount / 50;
22 printf("50: %d\n", notes);
23
24 // Calculate the number of 20 rupee notes
25 amount = amount % 50;
26 notes = amount / 20;
27 printf("20: %d\n", notes);
28
29 // Calculate the number of 10 rupee notes
30 amount = amount % 20;
31 notes = amount / 10;
32 printf("10: %d\n", notes);
33
34 // Calculate the number of 5 rupee notes
35 amount = amount % 10;
36 notes = amount / 5;
37 printf("5: %d\n", notes);
38
39 // Calculate the number of 2 rupee notes
40 amount = amount % 5;
41 notes = amount / 2;
42 printf("2: %d\n", notes);
43
44 // Calculate the number of 1 rupee notes
45 amount = amount % 2;
46 notes = amount / 1;
47 printf("1: %d\n", notes);
48
49 return 0;
50
```



```
C:\Users\91961\Documents\6. x + - □ ×
Enter the amount: 575
500: 1
100: 0
50: 1
20: 1
10: 0
5: 1
2: 0
1: 0

-----
Process exited after 33.22 seconds with return value 0
Press any key to continue . . . |
```

7.using loop.cpp

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int num, count = 0;
6
7      printf("Enter a number: ");
8      scanf("%d", &num);
9
10     while (num != 0) {
11         num /= 10;
12         ++count;
13     }
14
15     printf("Number of digits: %d", count);
16
17     return 0;
```

```
C:\Users\91961\Documents\7. x + v - □ ×
Enter a number: 35419
Number of digits: 5
-----
Process exited after 26.24 seconds with return value 0
Press any key to continue . . . |
```


8.digits of anumber.cpp

```
1  #include <stdio.h>
2
3  int main() {
4      int num, digit, sum = 0;
5
6      printf("Enter a number: ");
7      scanf("%d", &num);
8
9      // Loop through each digit and add it to the sum
10     for ( ; num != 0; num /= 10) {
11         digit = num % 10;
12         sum += digit;
13     }
14
15     printf("Sum of digits: %d", sum);
16
17     return 0;
18 }
```

```
C:\Users\91961\Documents\8. x + v
Enter a number: 1234
Sum of digits: 10
-----
Process exited after 12.48 seconds with return value 0
Press any key to continue . . . |
```

9.reverse.cpp

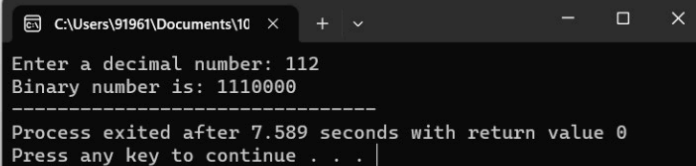
```
1 #include <stdio.h>
2
3 int main() {
4     int num, reversed = 0, remainder;
5     printf("Enter an integer: ");
6     scanf("%d", &num);
7
8     for (; num != 0; num /= 10) {
9         remainder = num % 10;
10        reversed = reversed * 10 + remainder;
11    }
12
13    printf("The reverse of the number is: %d\n", reversed);
14    return 0;
15 }
```

```
C:\Users\91961\Documents\9. x + v - □ ×
Enter an integer: 12345
The reverse of the number is: 54321

-----
Process exited after 7.193 seconds with return value 0
Press any key to continue . . . |
```

10.convert from decimal.cpp

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int decimalNumber, binaryNumber = 0, base = 1, remainder;
6
7     printf("Enter a decimal number: ");
8     scanf("%d", &decimalNumber);
9
10    while (decimalNumber > 0)
11    {
12        remainder = decimalNumber % 2;
13        binaryNumber = binaryNumber + remainder * base;
14        base = base * 10;
15        decimalNumber = decimalNumber / 2;
16    }
17
18    printf("Binary number is: %d", binaryNumber);
19
20    return 0;
21 }
```



```
C:\Users\91961\Documents\10 >
Enter a decimal number: 112
Binary number is: 1110000
-----
Process exited after 7.589 seconds with return value 0
Press any key to continue . . . |
```