```
[*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpp day2.55.cp; C:\Users\student\Documents\Untitled8.exe
                                                                                                19222429-saravanaveluInput starting number of range
Input ending number of range : 25
The prime numbers between 19 and 25 are :
19 23
          1 #include <stdio.h>
2
          3 ⊟
                      int main(){
  printf("192224249-saravanavelu");
          4
5
6
7
                      int num,i,ctr,stno,enno;
                                                                                                  rocess exited after 9.146 seconds with return value 0 ress any key to continue . . . \blacksquare
                      printf("Input starting number of range: ");
                      scanf("%d",&stno);
          8
         10
11
                      printf("Input ending number of range : ");
scanf("%d",&enno);
                      printf("The prime numbers between %d and %d are
         12
13
14
                      for(num = stno;num<=enno;num++)</pre>
         15 E
16
17
18
                              ctr = 0;
                              for(i=2;i<=num/2;i++)</pre>
         19 E
20 E
21
22
23 -
                                    if(num%i==0){
                                         ctr++:
         24
25
                              if(ctr==0 && num!= 1)
    printf("%d ",num);
         26
         27
         28
29
30
1.
        2.
        ug [*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpp day2.55.cpp Untitled8.cpp Untitled9.cpp
                1 #include <stdio.h>
                                                                                                    C:\Users\student\Documents\Untitled8.exe
                                                                                                   192224249-saravanaveluEnter a positive integer: 25
25 is not a prime number.
                 3 ☐ int main() {
                         int n, i, flag = 0;
printf("192224249-saravanavelu");
printf("Enter a positive integer: ");
scanf("%d", &n);
                                                                                                   Process exited after 3.034 seconds with return value 0
Press any key to continue . . . _
               8
9
10
11
12
13
14 =
15
16
                         if (n == 0 || n == 1)
                         for (i = 2; i <= n / 2; ++i) {
               17 E
18
19
                            if (n % i == 0) {
  flag = 1;
  break;
                        }
               20 -
21 -
22 23 24 25 26 27 28 29 30 }
                        if (flag == 0)
printf("%d is a prime number.", n);
                            printf("%d is not a prime number.", n);
                          21 4-. [2] -....
```

```
[*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpp day2.5.cpp Untitle
 3 int main()
4 ☐ {
                                                                                                                                                                                       192224249 saravanveluEnter any number to check perfect number: 28
28 is PERFECT NUMBER
   5
6
7
8
9
                           int i, num, sum = 0;
                                                                                                                                                                                         Process exited after 3.829 seconds with return value 0
Press any key to continue . . . _
                           printf("192224249 saravanvelu");
printf("Enter any number to check perfect number: ");
scanf("%d", &num);
 10
  11
 12
13 🛱
                           for(i = 1; i <= num / 2; i++)
 14
15
                                     if(num%i == 0)
 16 <del>|</del> 17
                                              sum += i;
 18
19
 20
21
 22
23 🖃
                           if(sum == num && num > 0)
 24
                                     printf("%d is PERFECT NUMBER", num);
 26 |
27 |
 28
29
                                     printf("%d is NOT PERFECT NUMBER", num);
  30
 31
32 }
                           return 0;
Compile Log 🥒 Debug 🗓 Find Results 🍇 Close
4.
□ C\Users\student\Documents\day2.55.exe
 [*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpp day2.5.cpp U<sub>3</sub>324 is not an Armstrong number.
                                                                                                                                                                               rocess exited after 3.46 seconds with return value 0 ress any key to continue . . .
  ['day2.A:n.c 2-cpp [']day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpp day2.3.cpp day2.5.cpp day2.5.cpp
   6
7
8
9
                          while (originalNum != 0) {
  10
   11
                                     remainder = originalNum % 10;
  12
  13
14
                                  result += remainder * remainder * remainder;
  15
  16
                               originalNum /= 10;
  17
  18
19
                          if (result == num)
  20
21
                           printf("%d is an Armstrong number.", num);
else
  22
                                   printf("%d is not an Armstrong number.", num);
  23
                           return 0:
  25 L }
  26
27
  29
c 📶 Compile Loa 🔊 Dehua 🖟 Find Results 💯 Clase
```

```
(lobals)
                                                                                              C:\Users\student\Documents\day2.55.exe
Debug [*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.5.cpp day2.5.cpp day2.55.cpp Uni92224249 saravanaveluEnter two numbers(intervals):
           1 #include <math.h>
2 #include <stdio.h>
                                                                                                  mstrong numbers between 5 and 2 are: 3 4
           3 ☐ int main() {
                                                                                                 int main() {
  int low, high, number, originalNumber, rem, count = 0;
  printf("19224249 saravanavelu");
  double result = 0.0;
  printf("Enter two numbers(intervals): ");
  scanf("%d %d", &low, &high);
  printf("Armstrong numbers between %d and %d are: ", low,
          10
        10 | 11 | 12 | if (high < low) { 13 | high += low; 14 | low = high - low; 15 | high -= low; 16 - }
         17
18
19 🗁
                  for (number = low + 1; number < high; ++number) {</pre>
         20
21
22
                      originalNumber = number;
                     while (originalNumber != 0) {
          23 🖨
         24
25
                       originalNumber /= 10;
++count;
          26
          27
         28 29
                      originalNumber = number;
6.
obals)
        [*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.4.cpp day2 C\(\subseteq \text{Lser\student\Documents\day2.55.exe}\)
bug
              #include <stdio.h>
                                                                         192224249 saravanveluEnter a positive integer:
         Process exited after 1.985 seconds with return value 0 ress any key to continue . . .
                     printf("Enter a positive integer: ");
         6
7
8
                     scanf("%d", &n);
                    for (i = 1; i <= n; ++i) {
    sum += i;
}</pre>
        9 |
        11
12
                     printf("Sum = %d", sum);
         13
        14 15 }
        16
17
esources 🌓 Compile Log 🤣 Debug 🗓 Find Results 🐐 Close
37 Sel: 0 Lines: 17 Length: 277 Insert Done parsing in 0.015 seconds
7.
als)
    [*]day2.11.c 2.cpp [*]day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpg

1 #include <stdio.h>

C\User\student\Documents\day2.5.cec

192224249 saravanaveluEnter a positive integer: 25

Sum = 325
                                                                           Process exited after 2.803 seconds with return value 0
Press any key to continue . . . _
       3 int addNumbers(int n);
       5 ☐ int main() {
               int num;
printf("192224249 saravanavelu");
               printf("Enter a positive integer: ");
scanf("%d", &num);
printf("Sum = %d", addNumbers(num));
     11
     12 }
               return 0;
     15 ☐ int addNumbers(int n) {
16 | if (n != 0)
                 return n + addNumbers(n - 1);
     17
     18
19
20 }
                 return n;
```

```
"day2.Tl.c 2cpp [']day2.2cpp day2.3cpp day2.4cpp day2.5cpc day2.5cpc day2.1c 2cpp [']day2.2cpp day2.3cpp day2.5cpc d
```

9.

```
[*] day2.11.c 2.cpp [*] day2.2.cpp day2.3.cpp day2.4.cpp day2.5.cpp day2.55.cpp Untitle C\Users\student\Documents\day2.55.exe
                                                                                                                        192224249 saravanaveluEnter first number:
Enter second number: 45
       #include<stdio.h>
 1 #include<std10.n>
2 int main() {
    double first, second, temp;
    printf("192224249 saravanavelu");
    printf("Enter first number: ");
    scanf("%1f", &first);
    printf("Enter second number: ");
    scanf("%1f". &second);
                                                                                                                        After swapping, first number = 45.00
After swapping, second number = 20.00
                                                                                                                        Process exited after 5.219 seconds with return value 0
Press any key to continue . . . .
            scanf("%lf", &second);
10
            // value of first is assigned to temp
11
12
            temp = first;
13
14
            // value of second is assigned to first
first = second;
15
16
            // value of temp (initial value of first) is assigned to se
second = temp;
17
18
            // %.2lf displays number up to 2 decimal points
printf("\nAfter swapping, first number = %.2lf\n", first);
printf("After swapping, second number = %.2lf", second);
19
20
21
22
23
24
```











