| | Trogramming Fundamentals 8 | |
|---|--|-----|
| -111 | U U U | |
| | | |
| | Program 1: | |
| | | |
| and the same | #include Liostreamy | - |
| | #13 using namespace std; | |
| | int main () | |
| | 3 | |
| | C | |
| Day. | Hinclude Liostream> | , k |
| | using namespace std; | |
| | using namespace stel; | |
| Mark Barrier | 0 | |
| | int sum OFdigits (int number) | - |
| | The stands | |
| | , Sum = 0; | |
| | while (number = 0) | |
| | E la | |
| | sum + = number 10; | |
| | number = 10; | |
| | ? | |
| | Jeturn sum; | * |
| 3 per e | A THE STATE OF THE | |
| 11 - 11 | int main () | |
| | { | |
| | int number; | |
| | cout is "Enter a number \n"; | |
| | Cin 77 numbell; | |
| | S. C. Carriero C. S. Carriero | 1 |

| | int sum= digit OFnumber (number); | |
|----|------------------------------------|------|
| | | |
| | cout e l'Isum of digits is "LLSum; | |
| | 1 8 0 | |
| | vetwen 0; | |
| | 7 | |
| | J | |
| | Output: | |
| | Enter a number | |
| | 415 | |
| | Sum of digits is 10 | |
| | 4 0 | |
| | Explanation: | |
| | . We will ask the user to | 1. 7 |
| | enter a number. | |
| | . Declare another variable sum | |
| | where sum will be stored. | 6 |
| | e- Using a while loop, we will | |
| | extract the values and get | |
| | the sum. | |
| | | |
| | Program 2: | |
| | 0 | |
| | #include ciostream> | |
| | using namespace std; | |
| | | |
| | int reverse (int number) | |
| | { | |
| | int reversed = 0; | |
| | while (number 70) | |
| 11 | J 1/4 J C 1 | |

| int sum= digit OFnumber (number); | |
|---|---|
| conte l'Isum of digits is "LLSum; | |
| vetwen 0; | |
| - I - I - I - I - I - I - I - I - I - I | |
| Output: | |
| Enter a number 415 | |
| Sum of digits is 10 | |
| Explanation: | |
| - we will ask the user to | - |
| enter a number. | |
| . Declare another variable sum | 8 |
| where sum will be stored. | |
| extract the values and get | |
| the sum. | |
| Parke | |
| Program 2: | |
| #include ciostream> | |
| using namespace std; | |
| at course of out and have | |
| Int reverse (int number) | |
| int reversed = 0; | |
| while (number 70) | |

| | ٢ |
|-----|--|
| 100 | reversed *= 10+number 1.10; |
| - 6 | number /= 10; |
| | } |
| | return reversed; |
| | 2 |
| | Same and the same and |
| | The same of the sa |
| | bool is Palindrome (int number) |
| 1 | 5 |
| 700 | L veturn number = = veverse (number) |
| | ? - toxic carried |
| | J suit was a suit of the suit |
| | int main () |
| | 3 |
| - · | L' int number; |
| - | coutri Enter a number n"; |
| | an 77 number; |
| | |
| | If (isPalindrome (number)) |
| | { |
| - | coutui The number is palindrome in |
| | E Train |
| | else |
| | |
| | cout er The number is not palindiome. \n; |
| | 3 |
| - | return 0; |
| 7 | 120001 |

| | Output 8- | ** |
|-----|--|--------|
| | Enter a number | _ |
| | 122 | 1000 |
| | The number is not palindsonce. | |
| | | 1 |
| | Explanation:- | |
| 0- | The reverse function will reverse | |
| | the integer enterred by the | |
| | user. | |
| 0 - | The isPalindrome function | |
| | shecks if the number reversed | W.E.F. |
| | is same as before or not. | |
| •- | If it is same then display | |
| | output accordingly. | |
| |) 0 0 | |
| | Program 3: | |
| | | |
| | tinclude Liostream? | |
| | using namespace std; | 2.2 |
| | O Master an antimidate la | |
| | void Sorted Number (float mint ni2 int ni3 | |
| | 3 | |
| | if (nil > nin2) | |
| (| if (~~2) | |
| | ٤ . | |
| | temp=num 1; | |
| | num 1 = num 2; | |
| • | num2 = num3; | |
| | 7 | - |
| | | II . |

| , and the | | |
|-----------|-------------------------------------|---|
| | if (num 2 znum3) | |
| e edit | 8 | |
| | temp = num 2; | |
| | num 2 = num3; | 3 |
| | num3 = tomp; | |
| | 3 | |
| | J moderno | |
| | if (num 3 7 num 1) | E |
| | 8 0 | - |
| | temp = num 1; | |
| | num 1 = num 2; | |
| * | rum 2 = temps | |
| | 2 | |
| | coutie" The sorted number are \n"; | |
| | cout 22 num 1 12" 2 Le num 2 LL" 9" | |
| | Le num 3; | |
| | 3 | |
| | | |
| | int main () } | |
| | float num 1 2 num 2, num 3; | |
| | Coutre "Enter 3 numbers [n"; | |
| | cin >znum 1 >znum2 >znum3; | |
| | | |
| | Sorted Numbers (num1, num2, num3); | |
| | returno; | |
| | a some est Nillian | |
| | District Line E day | |
| | | |
| | | |
| | | |

| | Output: | |
|----|--|------|
| | Enter three numbers | |
| | 284 | |
| | The sorted numbers are zerily | |
| | 7,3,4 | |
| | | |
| | Explanation:- | |
| •- | Ask the uses to enter three numbers. | |
| | The sorted Numbers function will | |
| | he used to sort the three | |
| | numbers in ascending order. The | |
| | function will compare the three | |
| | numbers and swaps them. This | |
| | process continues until numbers | |
| | are sorted. | |
| | | |
| - | Program 4: | |
| | 0 | |
| | Hinclude Liostream > | |
| - | using namespace std; | |
| | U state of the sta | |
| | | - 11 |
| | string convert millis (introdlis) | |
| | string convert millis (intmillis) | |
| | £ | |
| | int hours, minutes gesecs; | |
| | int hours, minutes posecs; hours = nillis/3600000; | |
| | int hours, minutes gesecs; hours = nillis/3600000; millis % = 3600000; | |
| | int hours, minutes posecs; hours = nillis/3600000; millis / = 3600000; minutes = nillis/60000; | |
| | int hours, minutes gesecs; hours = nillis/3600000; millis % = 3600000; | |

| | retain to string (hours) + tastring | |
|------|---|---|
| | vetain to string (hours) + tastring (minutes) + to string (seconds); | |
| | 3 | |
| | J mais a mais a | |
| | int main () | |
| | 5 | |
| | int milliss | |
| | contre Enter a value for wellischnis | |
| | cin->millis; | |
| | | |
| | contra " New Time: In Mas | |
| | contre Men Time: In 'Me; | |
| | | |
| | return 0; | |
| à e | 2 - 1 | |
| | | |
| | Dutput: | |
| | - (= - A & A & A = - A & A & A = - A & A & A = - A & A & A & A & A & A & A & A & A & A | |
| • | Enter a value for milliseconds: 555550000 | |
| | New Time: | |
| 101- | 154:19:10. | |
| | | - |
| | Program 5: | |
| | U Samuel Company | |
| | Hinchude Liostreamz | |
| | using namespace std; | |
| | | |
| | void Tower OF Hanoi (int numdestes, int source, | |
| | int destination , int temp); | |
| | | |
| | | |

| 4 | int main() § | |
|---|--|-------|
| | int num Hisksi | |
| | couter "Enter the no. of disks \n"; | |
| | cin 77 numdistes; | _ |
| | | |
| | contri Steps to solve Tower of Konor" | |
| | LL numaists LL duks | |
| * | to see at the second of the se | |
| | tower of Hanoi (num distes 1,3,2); | |
| | Ve L | |
| | return 0; | |
| - | S | |
| | | |
| | void Tower OFHanoi (int num disks gint source ? | |
| - | int destination, int temp) | |
| | { | |
| - | · · · · · · · · · · · · · · · · · · · | |
| - | if (numdisks==1) { | |
| | cout LL saucce LL" -> "destination; | |
| | return; | |
| - | 5 | |
| | | 1. |
| | Tover CF Hanoi (numdisks-1, source, temp, destind contre source LL"->"La destination mend!; | رار |
| | The art of 10 10 1 to be and left | ۵). |
| - | Tower OF Hanoi (numdisks-1, temp, soura, destination | ر (۲ |
| | } | |
| | | |
| | | |
| | | |

| | DATE:/ |
|------|---|
| | |
| | Output: |
| | |
| | Enter the no. of disks? |
| | |
| | Step & to salve tone at Hansi with |
| | Steps to salve tonce of Hanoi with 2 disks. |
| | 2 ausics. |
| | $1 \rightarrow 2$ |
| -, | |
| | $1 \rightarrow 3$ |
| | $2 \rightarrow 1$ |
| | |
| | • |
| | |
| B. J | |
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| | , . |
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