Programming Techniques

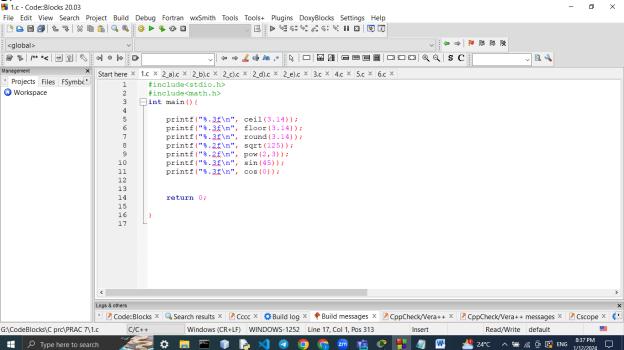
ICT 131-3

Practical 07

UWU/ICT/22/077

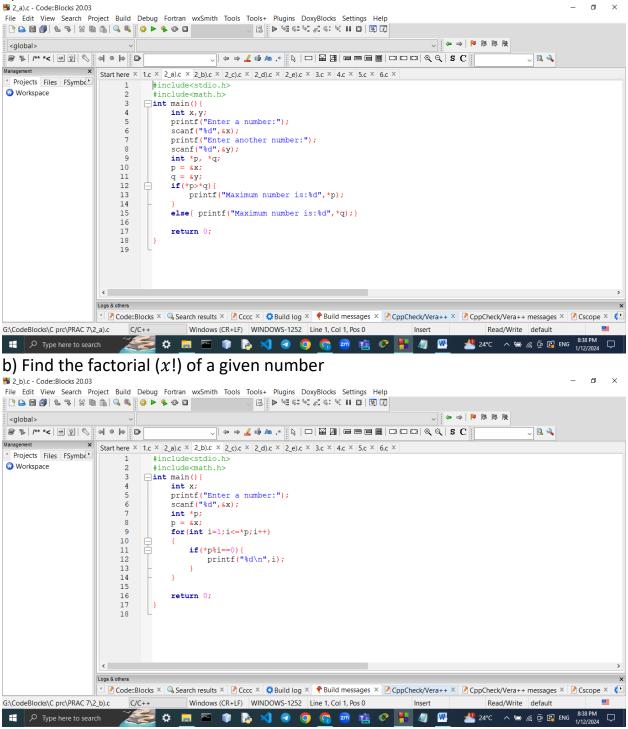
H.M.S.H.HERATH

- 1. Write a simple C program using maths functions to give the output for below cases:
- a) round up
- b) round down
- c) round off to the nearest value
- d) square root
- e) power of the given two arguments
- f) sin value
- g) cos value

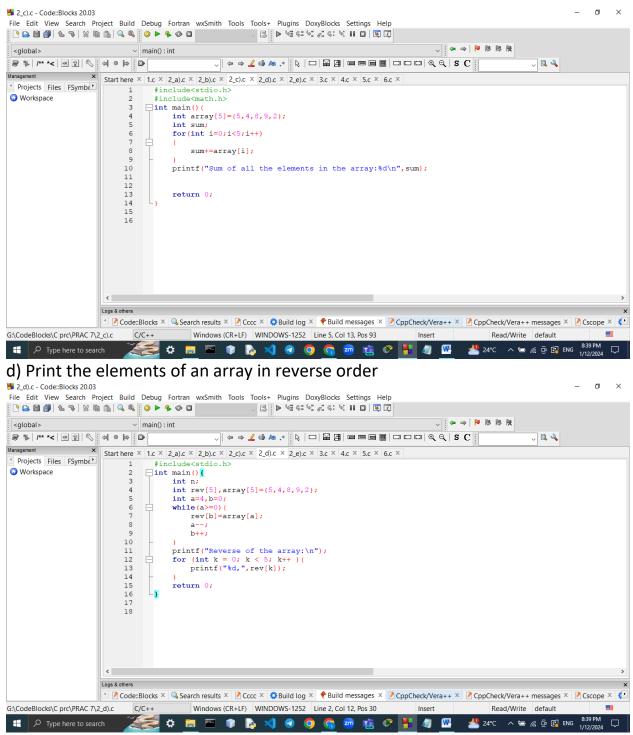


2. Write C programs using pointers

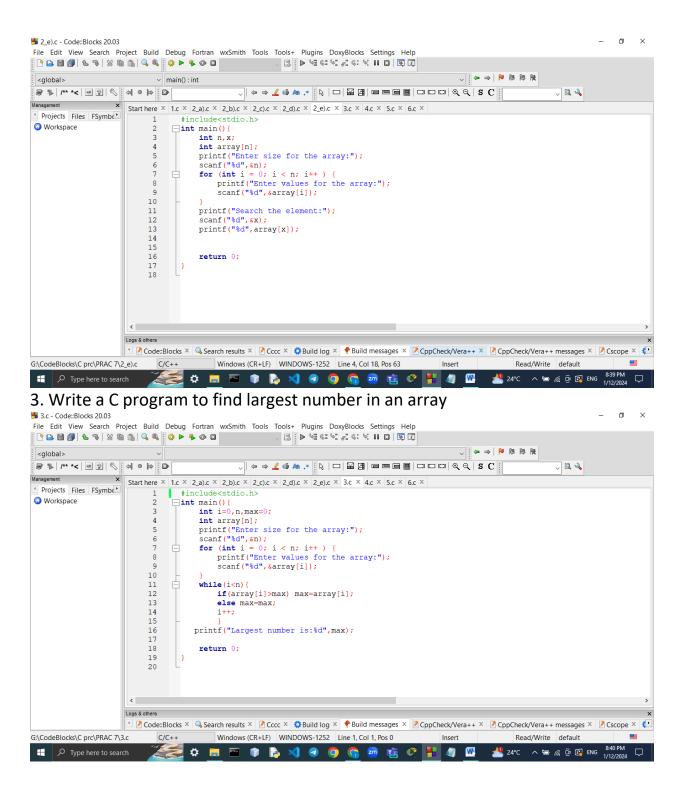
a) Find the maximum number between two numbers



c) Compute the sum of all elements in an array



e) Search an element in an array .



4. Write a C program to find reverse of an array

Example: If the elements of the array are: 10, 5, 16, 35, 500

Then its reverse would be: 500, 35, 16, 5, 10

Hint: Can Use 2 arrays

```
5 4.c - Code::Blocks 20.03
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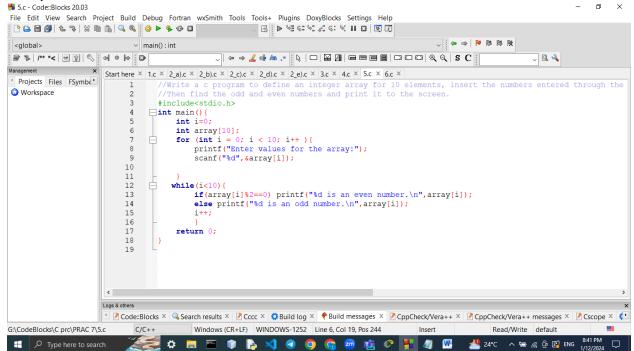
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Projects Files FSymbo
                        1
                               #include<stdio.h>

    ₩orkspace

                            int main(){
                                   int n;
                        3
                                   int rev[5], array[5]={5,4,8,9,2};
                                   int a=4,b=0;
                                   while(a>=0){
                                       rev[b] = array[a];
                        8
                                       a--;
                        9
                                       b++:
                       10
                                   printf("Reverse of the array:\n");
                       11
                                   for (int k = 0; k < 5; k++ ) {
    printf("%d,",rev[k]);</pre>
                       12
                       13
                       14
                       15
                                   return 0;
                       16
                       17
                       18
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```

5. Write a c program to define an integer array for 10 elements, insert the numbers entered through the keyboard. Then find the odd and even numbers and print it to the screen.



6. Write a C program to obtain given array(array_B) from the following array(array_A)

```
\begin{split} & \text{array\_A=}\{\{2,3\},\!\{5,6\},\!\{7,6\},\!\{8,9\},\!\{2,4\}\}; \\ & \text{array\_B} = \{\{4,6\},\!\{10,12\},\!\{14,12\},\!\{16,18\},\!\{4,8\}\}; \end{split}
```

- a) Print the values in the array(array_A)
- b) Print the values in the new array (array B)

