Bahria University, Karachi Campus



COURSE: CSC -113 Computing Programming lab TERM: SPRING 2020, CLASS: BCE- 2A

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Submitted By:

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1. Write a C++program to Print a table of n number (n enter by user).

```
Enter the number:

5
5x1=5
5x2=10
5x3=15
5x4=20
5x5=25
5x6=30
5x7=35
5x8=40
5x9=45
5x10=50
enter 1 for another table
enter 0 for invalid input
```

2. Write a while loop that counts backwards from 20 to 10.

PROGRAM:

```
SHARE <
                                                        C++
                                        Dark Light
     C++
                                                                          Output
                                                                          write a while loop count backward from 2
  using namespace std;
                                                                           i is : 20
4 int main()
                                                                            i is: 19
5 { cout << "write a while loop count backward from 20 to 10 "<<endl;
  float i = 20;
while(i>=10)
                                                                           i is : 18
                                                                           i is: 17
                                                                           i is: 16
     cout<< " i is : "<<i<<endl;</pre>
                                                                           i is: 15
    i=i-1;
                                                                           i is: 14
                                                                           i is : 13
                                                                           i is: 12
                                                                           i is: 11
                                                                           i is: 10
```

3. Write a C++program to print all natural numbers from 1 to n. using while loop PROGRAM:

```
C++ Output

1  #include <iostream>
    using namespace std;

4   int main()
5   {
        int n, num = 1;
        cout<< "enter n : ";
        cin>>n;
        while (num <= n) {
            cout << " Natural Numbers are : " << num << endl;
            num = num + 1;
        }

13
        return 0;
}</pre>
```

```
enter n : 9

Natural Numbers are : 1

Natural Numbers are : 2

Natural Numbers are : 3

Natural Numbers are : 4

Natural Numbers are : 5

Natural Numbers are : 6

Natural Numbers are : 7

Natural Numbers are : 8

Natural Numbers are : 9

...Program finished with exit code 0

Press ENTER to exit console.
```

4. Write a C++ Program that displays a series of alphabets in descending order from 'Z' to 'A

```
C++ Output

#include <iostream>
using namespace std;
int main()

{
    char alphabet;
    alphabet='Z';
    cout<<" alphabets:\n";
    while(alphabet>='A')

{
    cout<<" "<<alphabet<->;
}

return 0;
}

**The cout of the couton in the couton
```

```
alphabets:

Y

X

W

V

U

T

S

R

Q

P

O

N

M

L

K

J

I

H

G

F

E

D

C

B

A

...Program finished with exit code 0

Press ENTER to exit console.
```

5. Write a C++ program to count number of digits in a number.

```
C++ Output

#include<iostream>
using namespace std;

int main()

{
    int num,i=0;
        cout<<"enter any number:";
        cin>num;
    while(num>0)

10     {
        num=num/10;
        i++;
        }
        cout<<"no. of digits in given number is: "<<i<endl;
    return 0;
}
```

```
enter any number:538458437557453987

no. of digits in given number is: 10

...Program finished with exit code 0

Press ENTER to exit console.
```

6.Write a program that adds all the odd numbers from 1 to n .n will be entered by the user.(n >=1)

```
Enter number: 30
1
9
11
13
15
17
19
21
23
25
27
29
Sum of odd numbers: 225
..Program finished with exit code 0
Press ENTER to exit console.
```

7.Write an exec with a DO WHILE loop that asks passengers on a commuter airline if they want a window seat and keeps track of their responses. The flight has 8 passengers and 4 window seats. Discontinue the loop when all the window seats are taken. After the loop ends, display the number of window seats taken and the number of passengers questioned.

```
#include <iostream>
using namespace std;

int main()
{ int windows;
int ticket = 0;
char Input;
int passengers = 0;
de(cout<<"press 'y'for windows otherwise press 'N'"<<endl;
cin>Input;
if(Input == 'y') {

cout<<"your window seat is book"<<endl;
windows +=1;
if(windows == 4) {
 cout<<"Total window seat is : "<<windows</td>

if cout<<"Total passengers : "</pre>
cout<<"Your Seat will be book"<<endl;

cout<<"Total passengers : "</pre>
cout
cout<<"Total passengers : "</pre>
cout
cout<<"Total Seats"</pre>
cout
cout<<"Total Seats"</pre>
cout
cout
cout
cout
while(passengers <= 8);
return 0;
```

```
press 'y'for windows otherwise press 'N'

Your Seat will be book

Total Seats1

press 'y'for windows otherwise press 'N'

Your Seat will be book

Total Seats2

press 'y'for windows otherwise press 'N'

N

Your Seat will be book

Total Seats3

press 'y'for windows otherwise press 'N'

Your Seat will be book

Total Seats4

press 'y'for windows otherwise press 'N'

Your Seat will be book

Total Seats4

press 'y'for windows otherwise press 'N'
```

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