## Fundamentals of Programming

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# Q1) //Q1)Write a program in C++ that prints the numbers from 1 to 150 except the multiples of 10. Make use of the continue statement. #include <iostream> using namespace std; |int main() { | for (int i=1; i<=150; ++i) { | if (i\frac{1}{2}10==0) { | continue; | } | cout << i << " "; | } ANS 1)</pre>

1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 51 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78 79 81 82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 98 99 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118 119 121 122 123 124 125 126 127 128 129 131 132 133 134 135 136 137 138 139 141 142 143 144 145 146 147 148 149

Process returned 0 (0x0) execution time : 0.138 s

Press any key to continue.

#### Q2)

```
//QQ)Write a C++ program to find the sum of digits of a number. The sum of digits means adding all the digits of any number, for example, we take any number like 350. Its sum of all digits is 3+5+8=16.

#include <iostream>
using namespace std;

int main() {
    int x = 0;
    int y, z;
    z = n;
    while (z>0) {
    y ==110;
    x = x+y;
    cout<<;;
    z=2/10;
    if(z>0)
    cout<<;**;
```

### ANS 2)

cout << " = " << x; return 0;

```
Enter your number: 123
3+2+1 = 6
Process returned 0 (0x0) execution time : 4.277 s
Press any key to continue.
```

```
Q3)
//\Omega) Write a program in C++ to check whether a number is prime or not.
#include <iostream>
using namespace std;
int main() {
    int num=0;
    bool x=1;
    cout<<"Enter a number"<<endl;</pre>
    cin>>num;
    for(int i=2;i<num/2;i++)</pre>
         if(num%i==0)
            cout<<"number is not prime"<<endl;</pre>
            x=0;
         break;
    if(x==1)
         cout<<"number is prime"<<endl;</pre>
    return 0;
```

#### **ANS 3)**

```
Enter a number

28
number is not prime

Process returned 0 (0x0) execution time : 3.102 s

Press any key to continue.
```

```
Enter a number
7
number is prime
Process returned 0 (0x0) execution time : 1.386 s
Press any key to continue.
```