NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

CS-114- FUNDAMENTAL OF PROGRAMMING

LAB MANUAL 4

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TASK 1:

Write a program in C++ that prints the numbers from 1 to 150 except the multiples of 10.

Make use of the continue statement.

CODE:

```
#include <iostream>
using namespace std;
int main (){
//for print 150 numbers except multiple of 10
for (int i = 1; i <=150; i++){
if (i % 10 ==0)
continue;
cout <<i <<"  ";//output
}
return 0;
}
```

RESULT:

```
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 exited after 0.08279 seconds with return value 0
Press any key to continue . . .
```

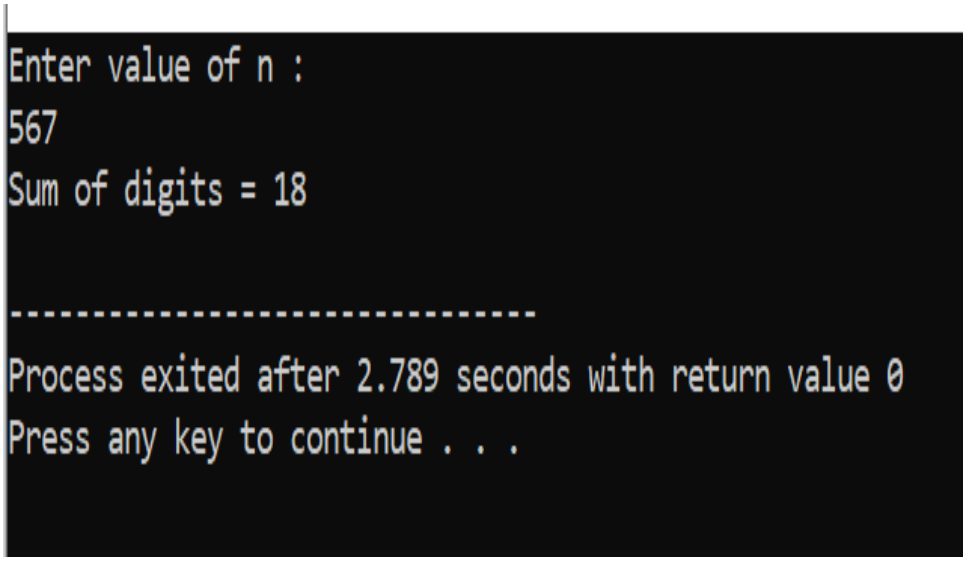
TASK 2:

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,

CODE:

```
#include <iostream>

using namespace std;

int main (){

int n, j,sum=0;

cout <<"Enter value of n :"<<endl;//take input from user

cin >>n;

for (;n>0;n=n/10){

 j= n%10;//condition

sum = sum + j;}

cout <<"Sum of digits = "<<sum<<endl;//output


return 0;

}
```

RESULT:



TASK 3:

Write a program in C++ to check whether a number is prime or not.

CODE:

```
#include <iostream>

using namespace std;

int main (){

int n, j;//declaration

int count = 0;

cout <<"Enter value of n :"<<endl;//ask user to provide input

cin >>n;

for (j=1; j<=n; j++){

 if (n%j == 0)

 count++;}

if (count ==2)//condition for taking output

cout <<"It is prime number." <<count <<endl;//result

else

cout <<"It is not prime number." <<count <<endl;

return 0;

}
```

RESULT: