FUNDAMENTALS OF PROGRAMMING(LAB)

By

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Subject: FUNDAMENTALS OF PROGRAMMING

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TASK-LAB MANUAL 4

Q1. SUM OF ANY 10 NATURAL NUMBERS.

```
#include <iostream>
using namespace std;
int main()
{
  int n,k=0,sum=0;
  for(n=0;n<10;n++)
     cin>>k;
     sum += k;
}
 cout<<"THE SUM OF GIVEN 10 NATURAL NUMBERS IS"<<" "<< sum;
  return 0;
    \blacksquare \blacksquare \text{ "C:} Users\Rizwan computers\OneDrive\Desktop\C++\vwI and consnt THEORY } 
es THE SUM OF GIVEN 10 NATURAL NUMBERS IS 154
ainProcess returned 0 (0x0) execution time: 8.558 s
Press any key to continue.
```

Q2. TABLE OF ANY NUMBER.

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

```
int n,k,m;
  k = 0;
  cin>>m;
  for(n=0;n<11;n++)
  {
    k =m*n;
  cout<<m<<"x"<<n<<"="<<k<<endl;
  }
  return 0;
}
 L:\Users\κızwan computers\Uneυrive\Desktop\C++\vwi anα consnt i
  5x0=0
  5x1=5
  5x2=10
5x3=15
  5x4=20
  5x5=25
  5x6=30
  5x7=35
  5x8=40
  5x10=50
  Process returned 0 (0x0) execution time: 4.920 s
  Press any key to continue.
Q3. TABLE OF ANY NUMBER.
#include <iostream>
using namespace std;
int main()
{
  int i,a=0,b=1;
  cin>>a;
  for(i=1;i<=a;i++)
  {
    b *= i;
  }
```

if(a<0)

```
{
cout<<"FACTORIAL OF NEGATIVE NUM DOESNT EXIST";
}
else {
cout<<"FACTORIAL OF "<<a<<""<<"is"<<""<<b;
}
return 0;
}

FACTORIAL OF 7 is 5040
Process returned 0 (0x0) execution time : 2.373 s
Press any key to continue.</pre>
```

Q4. FIBONACCI SERIES.

```
#include <iostream>
using namespace std;
int main()
{
  int a,b,sum,num;
  cout<<"ENTER NUMBERS:\n";
  cin>>a;
  cin>>b;
  cout<<a<<", "<<b<<", ";
  for(num=0; num<9;num++){</pre>
   sum=a+b;
   a=b;
   b=sum;
   cout<<sum<<", ";
  }
  return 0;}
```

```
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ENTER NUMBERS:

0

1

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55,

Process returned 0 (0x0) execution time: 2.216 s

Press any key to continue.
```