National University of Sciences & technology Fundamentals of programming

Lab Tasks – 4

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Lab Task-1:

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

int s,n,x;
s=0;
while(x<11){
    cout<<"Enter natural number:";
    cin>>n;
    s=s+n;
    x++;
}
cout<<"Sum of 10 natural numbers entered = "<<s;
    return 0;
}</pre>
```

```
Enter natural number:23
Enter natural number:4
Enter natural number:65
Enter natural number:756
Enter natural number:3
Enter natural number:23
Enter natural number:42
Enter natural number:12
Sum of 10 natural numbers entered = 955
```

Lab Task-2:

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

int table,x;
cout<<"Enter a number to get a table"<<endl;
cin>>table;
for(x=0;x<=10;x++){
        cout<<table<<""*"<<x<<"="<<table*x<<endl;
}
cout<<"Congrats";
        return 0;
}</pre>
```

```
Enter a number to get a table
9
9*0=0
9*1=9
9*2=18
9*3=27
9*4=36
9*5=45
9*6=54
9*7=63
9*8=72
9*9=81
9*10=90
Congrats
```

Lab Task-3:

```
#include <iostream>
using namespace std;
int main() {
int number,i;
int f=1;
cout<<"Enter a number:"<<endl;</pre>
cin>>number;
int x=number;
for(i=0;i<=x-1;i++){
      f=f*(number);
      number=number-1;
}
cout<<"Factorial of "<<x<<" is: "<<f;
      return 0;
}
Enter a number:
Factorial of 4 is: 24
```

Lab Task-4:

```
#include <iostream>
using namespace std;
int main(){
int number,i;
int x,y,z;
cout<<"Enter first number"<<endl;</pre>
cin>>x;
cout<<"Enter second number"<<endl;</pre>
cin>>y;
cout<<"Enter number of values to input"<<endl;</pre>
cin>>number;
for(i=0;i< number+2;i++){
cout<<x<<" ";
z=x+y;
x=y;
y=z;
}
       return 0;
}
```

```
Enter first number
3
Enter second number
2
Enter number of values to input
7
3 2 5 7 12 19 31 50 81
```