## PROGRAMMING FUNDAMENTALS

## Topic No: 1 MARKS & GRADES

```
Program to find the grade of student according to there numbers
#include <iostream>
using namespace std;
int main()
  int marks;
  cout<<"Enter your marks: "<<endl;</pre>
  cin>>marks;
  if(marks<0 | | marks>100){
   cout << "Invalid marks. " << endl;
  else if(marks \geq 90){
   cout<<"Your grade is ( A ) ";</pre>
  }
  else if(marks \geq 80){
   cout<<"Your grade is ( B ) ";</pre>
```

```
else if(marks \geq = 70){
   cout<<"Your grade is ( C ) ";</pre>
  else if(marks \geq = 60){
   cout<<"Your grade is ( D ) ";</pre>
  }
  else if(marks \geq 50){
   cout<<"Your grade is (E) ";</pre>
  else{
   cout<<"Your are fail: ";</pre>
  return 0;
}
TOPIC NO:2 FACTORIAL AND FIBONACCHI SEQUENCE
Program for finding factorial of number
#include <iostream>
using namespace std;
```

```
int main() {
  int n, fact = 1;
  cout << "Enter a number: ";</pre>
  cin >> n:
  for (int i = 1; i \le n; ++i) {
    fact *= i;
  }
  cout << "Factorial of " << n << " is " << fact << endl;
  return 0;
}
                               OR
#include <iostream>
using namespace std;
int factorial(int n){
 if(n == 0 | n == 1)
  return n;
 }
 else{
  return n*factorial(n-1);
 }
```

```
int main()
  int num;
  cout << "Enter your number: " << endl;
  cin>>num;
  cout << "The factorial of " << num << " is
"<<factorial(num);
  return 0;
Program for finding Fibonacci sequence of
number
#include <iostream>
using namespace std;
int fibonacchi(int n){
```

```
if(n \le 1)
  return n;
  else{
  return fibonacchi(n-1) + fibonacchi(n-2);
 }
}
int main(){
 int n;
 cout<<"Enter your number: "<<endl;</pre>
 cin>>n;
 cout<<"Your fibonacchi sequence upto "<<n<<" term is
"<<endl:
 for(int i=0; i< n; i++){
  cout<<fibonacchi(i)<<" ";
 }
 return 0;
}
TOPIC NO:3 MULTPLE TABLE OF ANY NUMBER UPTO 10
```

Program to find multiple table of any number upto 10

```
#include<iostream>
using namespace std;
int main(){
 int num;
 cout<<"Enter your specific number: "<<endl;</pre>
 cin>>num;
 cout<<"The multiplication tables of "<<num<<" is "</pre>
<<endl;
 for(int i=0; i<=10; i++){
  cout<<num<<" x "<<i<" = "<<num * i<<endl;
 }
 return 0;
}
```