

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;
```

```
    cin>>marks;
```

```
    if(marks<0 || marks>100){
```

```
        cout<<"Invalid marks. "<<endl;
```

```
    }
```

```
    else if(marks >= 90){
```

```
        cout<<"Your grade is ( A ) ";
```

```
    }
```

```
    else if(marks >= 80){
```

```
        cout<<"Your grade is ( B ) ";
```

```
    }
```

```
else if(marks >= 70){  
    cout<<"Your grade is ( C ) ";  
}  
else if(marks >= 60){  
    cout<<"Your grade is ( D ) ";  
}  
else if(marks >= 50){  
    cout<<"Your grade is ( E ) ";  
}  
else{  
    cout<<"Your are fail: ";  
}  
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: ";  
    cin >> n;  
    for (int i = 1; i <= n; ++i) {  
        fact *= i;  
    }  
    cout << "Factorial of " << n << " is " << fact << endl;  
    return 0;  
}
```

Program for finding Fibonacci sequence of number

```
#include <iostream>  
using namespace std;  
  
int fibonacchi(int n){  
    if(n<=1){  
        return n;  
    }  
}
```

```

    else{
        return fibonacchi(n-1) + fibonacchi(n-2);
    }
}

int main(){
    int n;
    cout<<"Enter your number: "<<endl;
    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 MULTIPLE 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;  
    cin>>num;  
  
    cout<<"The multiplication tables of "<<num<<" is "  
<<endl;  
    for(int i=0; i<=num; i++){  
        cout<<num<<" x "<<i<<" = "<<num * i<<endl;  
    }  
  
    return 0;  
}
```