Coding questions on functions

Ques1. Write a program to print all prime numbers between 2 given numbers.

```
#include<iostream>
#include<math.h>
using namespace std;
bool isPrime(int num){
  for(int i=2;i<=sqrt(num);i++){</pre>
     if(num%i==0){
       return false;
     }
  }
  return true;
int main(){
  int a,b;
  cin>>a>>b;
 for(int i=a;i<=b;i++){
    if(isPrime(i)){
       cout<<i<<endl;
  }
  return 0;
```

Ques2. Write a program to print Fibonacci sequence.

```
#include<iostream>
using namespace std;
void fib(int n){
  int t1=0;
  int t2=1;
  int nextTerm;
  for(int i=1;i<=n;i++){
     cout<<t1<<endl;
     nextTerm=t1+t2;
     t1=t2;
     t2=nextTerm;
  return;
int main(){
  int n;
  cin>>n;
  fib(n);
  return 0;
```

Ques 3. Write a program to find the factorial of a given number.

```
#include<iostream>
using namespace std;
int fact(int n){
  int factorial=1;
  for(int i=2;i<=n;i++){
     factorial*=i;
  return factorial;
int main(){
  int n;
  cin>>n;
  int ans = fact(n);
  cout<<ans<<endl;
  return 0;
```

Ques4. Write a program to find the binary coefficient (nCr)

```
#include<iostream>
using namespace std;
```



```
int fact(int n){
  int factorial=1;
  for(int i=2;i<=n;i++){
     factorial*=i;
  return factorial;
int main(){
  int n,r;
  cin>>n>>r;
  int ans = fact(n)/(fact(r)*fact(n-r));
  cout<<ans<<endl;
  return 0;
```

Ques4. Write a program to print the Pascal triangle.

```
#include<iostream>
using namespace std;

int fact(int n){
  int factorial=1;
  for(int i=2;i<=n;i++){</pre>
```

```
factorial*=i;
  return factorial;
int main(){
  int n;
  cin>>n;
  for(int i=0;i<n;i++){
     for(int j=0;j<=i;j++){
        cout<<fact(i)/(fact(j)*fact(i-j))<<" ";
     cout<<endl;
  }
  return 0;
```

Practice questions

Ques6. Write a program to find out whether a given number is even or odd using functions.

Ques7. Write a program to find out whether a given character is an alphabet or not using functions.

Ques8. Write a program with two functions to print the maximum and the minimum number respectively among three numbers entered by user.



Ques 9. Write a program with a function to swap the values of 2 given integer variables.

Ques 10. Write a program using functions to check if a person is eligible for voting or not by comparing his age with legal voting age i.e. 18.

