STD: XI **COMPUTER SCIENCE**

PROGRAM – 1

Gross Salary:

```
#include <iostream>
using namespace std;
int main()
{
float basic, gross, da,hra;
cout<<"Enter basic salary of an employee: ";
cin>>basic;
if (basic <25000)
{
da = basic *80/100;
hra= basic *20/100;
}
else if (basic >=25000 && basic<40000)
{
da = basic *90/100;
hra= basic *25/100;
}
else if (basic>=40000)
{
da = basic *95/100;
hra= basic *30/100;
}
gross= basic +hra+ da;
cout<< "\n\t Basic Pay ................."<< basic<<endl;
cout<< "\t Dearness Allowance ......." << da <<endl;
cout<< "\t House Rent Allowance......"<< hra <<endl;
cout<< "\t ----------------------------------------"<<endl;
cout<< "\t Gross Salary............."<<gross <<endl;
cout<< "\t ----------------------------------------"<<endl;
return 0;
}
```

```
C:\Users\Yousuf\Desktop\C++ PROGRAMS\PRC
Enter basic salary of an employee: 25000

        Basic Pay .................25000
        Dearness Allowance .......22500
        House Rent Allowance......6250
        ----------------------------------------
        Gross Salary..............53750
        ----------------------------------------
```

PROGRAM – 2

Percentage:

```
#include<iostream>
using namespace std;
int main()
{
float percent;
int x;
cout<<"Enter your percentage:";
cin>>percent;
cout<<"You Scored"<<percent<<"%"<<endl;
x=percent/10;
switch(x)
{
case 10:
case 9:
case 8:
cout<<"You have passed with Distinction";
break;
case 7:
case 6:
cout<<"You have passed with First Division";
break;
case 5:
cout<<"You have passed with Second Division";
break;
case 4:
cout<<"You have passed with Third Division";
break;
default:
cout<<"Sorry: You have failed";
}
return 0;
}
```

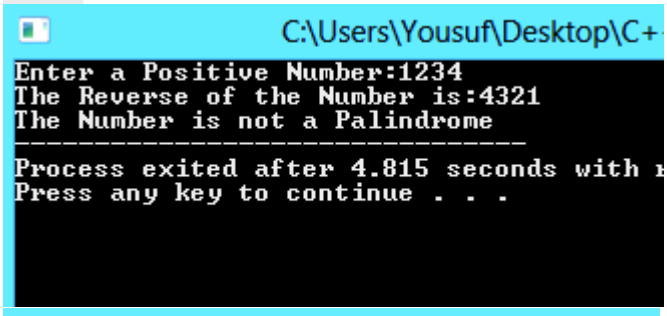
```
C:\Users\Yousuf\Desktop\C
Enter your percentage:79
You Scored79%
You have passed with First Division
--------------------------------
```

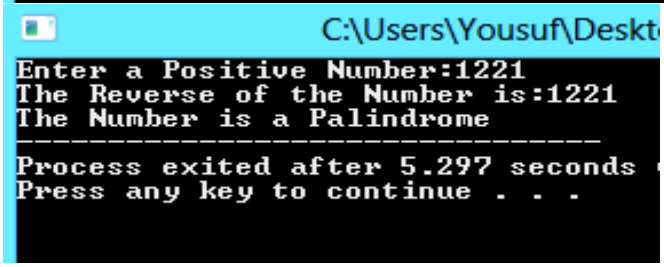
```
Enter your percentage:39
You Scored39%
Sorry: You have failed
--------------------------------
```

PROGRAM – 3

Palindrome:

```
#include<iostream>
using namespace std;
int main()
{
int n,num,digit,rev=0;
cout<<"Enter a Positive Number:";
cin>>num;
n=num;
while(num)
{
digit=num%10;
rev=(rev*10)+digit;
num=num/10;
}
cout<<"The Reverse of the Number is:"<<rev<<endl;
if (n == rev)
cout<<"The Number is a Palindrome";
else
cout<<"The Number is not a Palindrome";
return 0;
}
```

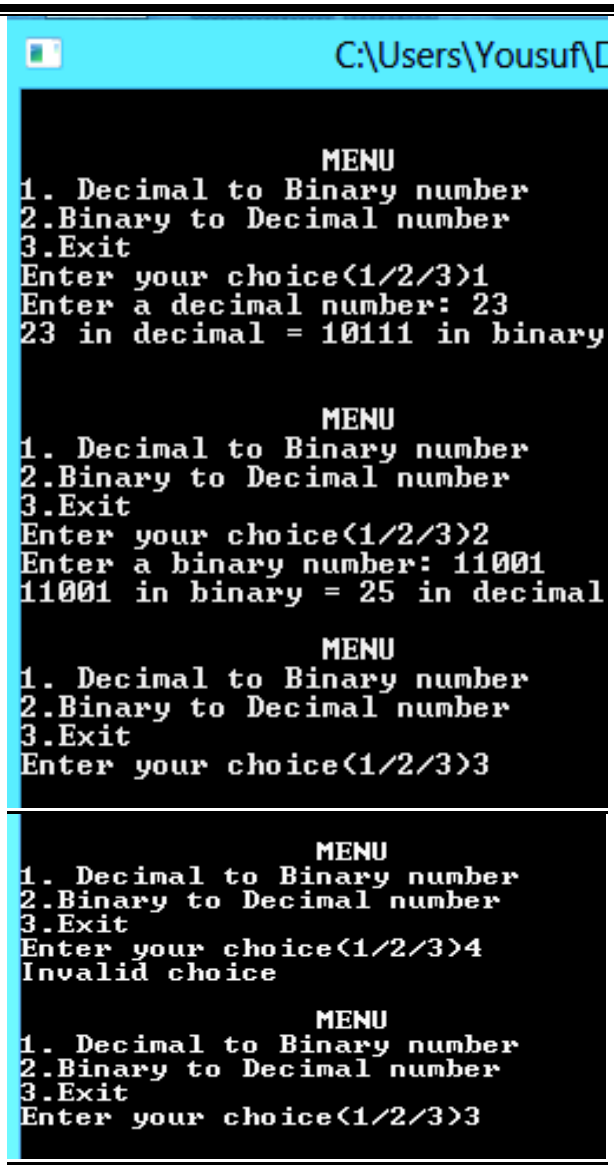




PROGRAM – 4

Number Conversion:

```
#include <iostream>
#include <cmath>
using namespace std;
int main()
{
int dec,d,i,temp,ch;
long int bin;
do
{
dec=bin=d=i=0;
cout<<"\n\n\t\tMENU\n1. Decimal to Binary number\n2.Binary to Decimal number\n3.Exit\n";
cout <<"Enter your choice(1/2/3)";
cin>>ch;
switch (ch)
{
case 1: cout << "Enter a decimal number: ";
cin >> dec;
temp=dec;
while (dec!=0)
{
d = dec%2;
bin += d * pow(10,i);
dec /= 2;
i++;
}
cout << temp << " in decimal = " << bin << " in binary" << endl ;
break;
case 2: cout << "Enter a binary number: ";
cin >> bin;
temp=bin;
while (bin!=0)
{
d = bin%10;
dec += d*pow(2,i);
bin /= 10;
i++;
}
cout << temp << " in binary = " <<dec << " in decimal";
break;
case 3:
break;
default:cout<<"Invalid choice";
}
}
while (ch!=3);
return 0;
}
```



PROGRAM – 5

Fibonacci Prime Series

```
#include <iostream>
#include <stdlib.h>
using namespace std;
void Primechk (int a)
{
int j;
if ( a == 0 || a == 1 )
{
cout<< " NEITHER PRIME NOR COMPOSITE ";
}
else
{
for (j = 2 ; j<a; j++)
{
if (a%j==0)
{
cout<< "\tCOMPOSITE" ;
break ;
}
}
if ( a==j )
cout<< "\tPRIME" ;
}
}
void fibo ( int n )
{
int a = -1 , b = 1 ,c=0 ;
for ( int i = 1 ; i <= n ; i++)
{
cout<<endl; c = a + b ;
cout<<c;
Primechk(c);
a = b;
b = c ;
}
}
```

```
37  int main ()
38  {
39  int n ;
40  cout << " ENTER THE NUMBER OF REQUIRED FIBO TERMS " ;
41  cin >> n ;
42  cout<< "\n\tFIBONACCI SERIES\n " ;
43  fibo (n) ;
44  return 0;
45  }
```