Question number 1 a

```
#include <iostream>
using namespace std;
int mod(int,int);
int subc(int,int);
int multi(int,int);
int div(int,int);
int main()
{
        int num1,num2;
       int mo, sub, m, d;
        cout<<"Enter number 01 ";</pre>
        cin>>num1;
        cout<<"Enter number 02 ";</pre>
        cin>>num2;
        sub=subc( num1, num2);
        cout<<"Subtraction of "<<num1<<" - "<<num2<<" = "<<sub;</pre>
        cout<<endl;
        m=multi( num1, num2);
       cout<<"Multiplication of "<<num1<<" * "<<num2<<" = "<<m;
        cout<<endl;
        d=div( num1, num2);
        cout<<"Divison of "<<num1<<" / "<<num2<<" = "<<d;
        cout<<endl;
```

```
mo=mod(num1,num2);
       cout<<"Mod of "<<num1<<" % "<<num2<<" = "<<mo;
       cout<<endl;
return 0;
}
       int mod(int num1,int num2){
              int mo=num1%num2;
              return mo;
       }
       int subc(int num1,int num2){
              int sub=num1-num2;
              return sub;
       }
       int multi(int num1,int num2){
              int m=num1*num2;
              return m;
       }
       int div(int num1,int num2){
              int d=num1/num2;
              return d;
       }
```

```
Enter number 01 23
Enter number 02 23
Subtraction of 23 - 23 = 0
Multiplication of 23 * 23 = 529
Divison of 23 / 23 = 1
Mod of 23 % 23 = 0

Process exited after 4.006 seconds with return value 0
Press any key to continue . . . _
```

Question number 1 b

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

int main()
{
    int num,sqt;

    cout<<"Enter any number here to see the square of number : ";
    cin>>num;

    sqt=square (num);
    cout<<num<<" squared = "<<sqt;

return 0;</pre>
```

```
int square (int num){
    int sqt=num*num;
    return sqt;
}
```

Question number 1 c

```
#include <iostream>
using namespace std;
int g (int,int);
int main()
{
    int num1,num2,maxi;

    cout<<"Enter number 1 here : ";
    cin>>num1;
    cout<<"Enter number 2 here : ";
    cin>>num2;

    maxi= g (num1,num2);
    cout<<"The greater number here is : "<<maxi;</pre>
```

```
return 0;
}
      int gs (int num1,int num2){
           int max;
           if(num1>num2)
           max=num1;
           else if(num1<num2)
           max=num2;
           return max;
     }
■ D:\1st sm Programing fundamentals\lab-8 p.f\Question 1 c.exe
Enter number 1 here : 23
Enter number 2 here : 45
The greater number here is: 45
Process exited after 3.849 seconds with return value 0
Press any key to continue \dots _
```

Question number 1 d

```
#include <iostream>
#include <string>
using namespace std;
string E_O (int);
```

```
int main()
{
       int num;
       string EorO;
       cout<<"Enter any number here : ";</pre>
       cin>>num;
       EorO=E_O(num);
       cout<<EorO;
return 0;
}
       string E_O (int num){
               string even_Or_odd;
               if(num%2==0)
               even_Or_odd="Even";
               else if(num%2!=0)
               even_Or_odd="Odd";
               return even_Or_odd;
       }
```

```
■ D:\1st sm Programing fundamentals\lab-8 p.f\Question 1 d.exe

Enter any number here : 45

Odd

-----

Process exited after 3.337 seconds with return value Ø

Press any key to continue . . .
```

Question number 1 e

```
#include <iostream>
using namespace std;
double perc (int,double);
int main()
{
       int Total_marks=500;
       double p,Obtained_marks;
       cout<<"Enter you obtained marks here: ";
       cin>>Obtained_marks;
       p = perc (Total_marks,Obtained_marks);
       cout<<"percentage is :"<<p;</pre>
return 0;
}
       double perc (int Total_marks,double Obtained_marks){
               double p;
               p=(Obtained_marks/Total_marks)*100;
               return p;
```

```
}
```

Question number 1 f

```
#include <iostream>
using namespace std;
double perc (int,double);
char grade (double);
int main()
{
        int Total_marks=500;
        double p,Obtained_marks;
        char gr;
        cout<<"Enter you obtained marks here: ";
        cin>>Obtained_marks;
        p = perc (Total_marks,Obtained_marks);
        cout<<"percentage is :"<<p;</pre>
        gr= grade (p);
        cout<<"\nyour grade is : "<<gr;</pre>
```

```
return 0;
}
       double perc (int Total_marks,double Obtained_marks){
               double p;
               p=(Obtained_marks/Total_marks)*100;
               return p;
       }
       char grade (double per){
               char gr;
               if(per>=80&&per<=100)
               gr='A';
               else if(per>=70&&per<80)
               gr='B';
               else if (per>=60&&per<70)
               gr='C';
               else if(per>=0&&per<60)
               gr='F';
               return gr;
```

}

Question number 1 g

```
#include <iostream>
using namespace std;
bool E_O (int);
int main()
{
        int num, num2;
        bool EorO;
        cout<<"Enter any number here : ";</pre>
        cin>>num;
        EorO=E_O(num);
        cout<<EorO;
        cout<<"\nEnter number to check if it is even or not : ";</pre>
        cin>>num2;
        if(EorO==1){
```

```
if(num2%2==0)
               cout<<"\nThe number is Even";</pre>
               else
               cout<<"The number is not Even";</pre>
       }
       if(EorO==0){
               if(num2%2!=0)
               cout<<"\nThe number is not Even";</pre>
               else
               cout<<"The number is Even";</pre>
       }
return 0;
}
        bool E_O (int num){
               bool even_Or_odd;
               if(num%2==0)
               even_Or_odd=true;
               else if(num%2!=0)
               even_Or_odd=false;
               return even_Or_odd;
       }
```

```
D:\lstsmProgramingfundamentals\lab-8 p.f\Question 1 g.exe

Enter any number here : 23

Enter number to check if it is even or not : 12

The number is Even

Process exited after 3.777 seconds with return value 0

Press any key to continue . . .
```

Question number 1 h

```
#include <iostream>
using namespace std;
int sumr (int);
int main()
{
        int sum;
        int range;
        cout<<"Enter range to see the sum here : ";</pre>
        cin>>range;
        sum= sumr (range);
        cout<<"Sum of all "<<range<<" positive integers is "<<sum;</pre>
return 0;
}
        int sumr (int range){
                int sum=0,t;
                if(range>=0){
```

```
for(int i=0; i<=range;i++){
    sum+=i;
}

t=sum;
return t;
}</pre>
```

Question number 1 i

```
#include <iostream>
using namespace std;
int printTable (int);
int printTable (int,int);
int main()
{
    int t_n,r;
```

```
cout<<"Enter any number to prints its table : ";</pre>
        cin>>t_n;
        printTable ( t_n);
        cout<<endl;
        cout<<"Enter any number to prints its table : ";</pre>
        cin>>t_n;
        cout<<"Enter the final range value : ";</pre>
        cin>>r;
        printTable ( t_n,r);
return 0;
}
        int printTable (int t_n){
                 for(int i=1; i<=10;i++){
                         cout<<t_n<<" x "<<i<<" = "<<t_n*i<<endl;
                 }
        }
        int printTable (int t_n,int r){
                 for(int i=1; i<=r;i++){
                         cout<<t_n<<" x "<<i<<" = "<<t_n*i<<endl;
                 }
        }
```

```
■ D:\1st sm Programing fundamentals\lab-8 p.f\Question 1 i.exe
Enter any number to prints its table : 12
12 \times 1 = 12
12 \times 2 = 24
12 \times 3 = 36
12 \times 4 = 48
12 \times 5 = 60
12 \times 6 = 72
12 \times 7 = 84
12 \times 8 = 96
12 \times 9 = 108
12 \times 10 = 120
Enter any number to prints its table : 12
Enter the final range value : 5
12 \times 1 = 12
12 \times 2 = 24
12 \times 3 = 36
12 \times 4 = 48
12 \times 5 = 60
Process exited after 7.296 seconds with return value 0
Press any key to continue . . .
```