Question number 01

```cpp
#include <iostream>

using namespace std;


int main()

{

 int num1,num2;

 float num3;

 cout<<"\t\t\t   INPUTS";

 cout<<endl<<endl;


 cout<<"\t\t\t Write integer no1 :  ";

 cin>>num1;

 cout<<"\t\t\t write integer no2 :  ";

 cin>>num2;

 cout<<"\t\t\t write float no1 :  ";

 cin>>num3;


 cout<<endl;

 cout<<"\t\t\t   Outputs";

 cout<<endl<<endl;

 cout<<"Integer no1 is: "<<num1<<"\t";

 cout<<"Integer no2 is: "<<num2<<"\t";

 cout<<"Float no1 is:   "<<num3<<"\t";




 return 0;
```

```
                        INPUTS

                Write integer no1 :   12
                write integer no2 :   23
                write float no1 :   4.5

                        Outputs

Integer no1 is: 12        Integer no2 is: 23        Float no1 is:   4.5
-------------------------------
Process exited after 10.71 seconds with return value 0
Press any key to continue . . .
```

}

Question number 02

#include <iostream>

using namespace std;

int main()

{

 int a,b,c,d,e,f;

 cin>>a;

 b=a/10000;//1

 c=(a-(b*10000));//2345

 int c1=c/1000; //2

 d=(c-(c1*1000));//345

 int d1=d/100;//3

 e=(d-(d1*100));//45

 int e1=e/10;//4

 f=e-(e1*10);//5

```cpp
cout<<f<<endl;

cout<<e1<<endl;

cout<<d1<<endl;

cout<<c1<<endl;

cout<<b<<endl;

return 0;

}
```
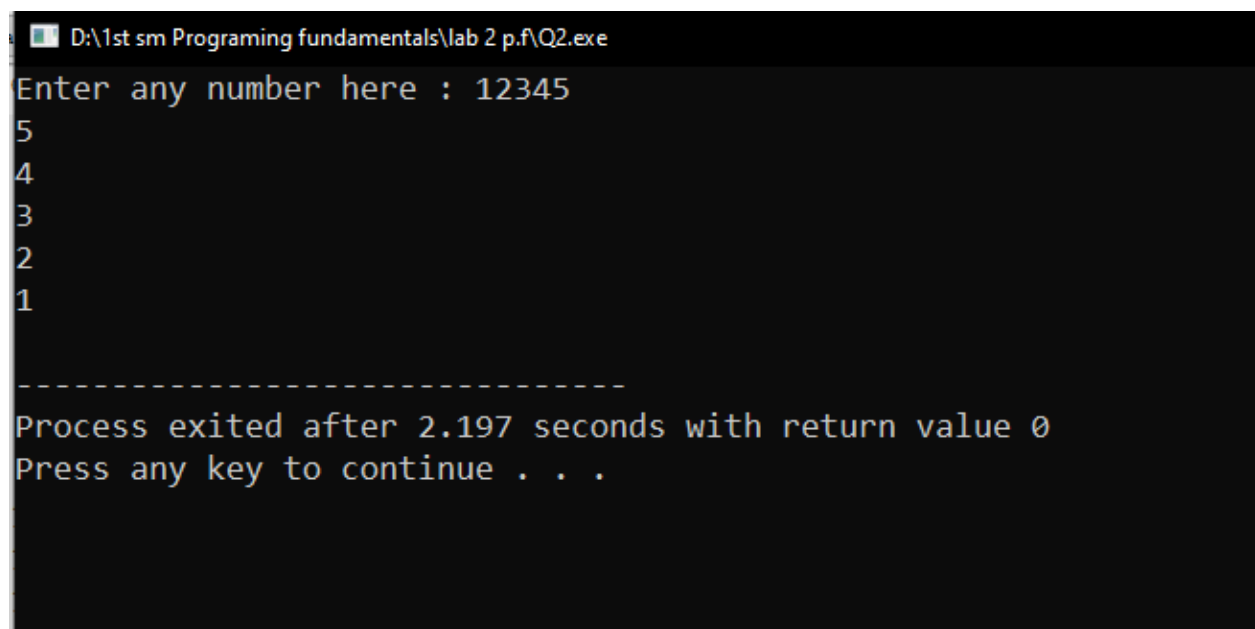
```
D:\1st sm Programing fundamentals\lab 2 p.f\Q2.exe

Enter any number here : 12345
5
4
3
2
1

-------------------------------
Process exited after 2.197 seconds with return value 0
Press any key to continue . . .
```

Question number 03

```cpp
#include <iostream>

using namespace std;


int main()

{

double a;

double zakat;

cout<<"Write your amount:  ";

cin>>a;
```
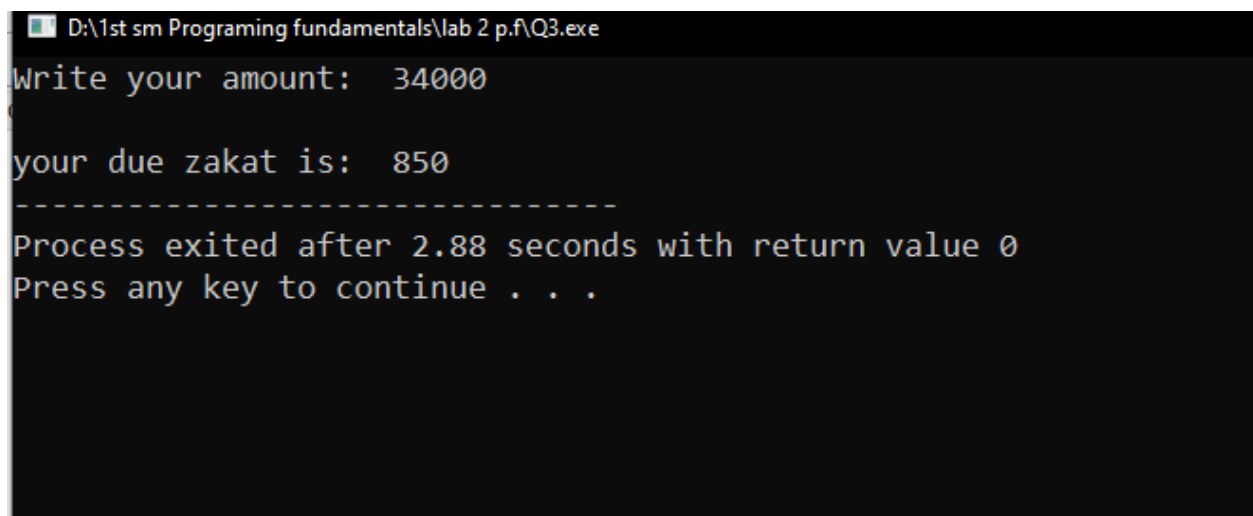
```cpp
zakat=0.025*a;

cout<<endl;

cout<<"your due zakat is:  "<<zakat;




return 0;

}
```

```
D:\1st sm Programing fundamentals\lab 2 p.f\Q3.exe

Write your amount:   34000

your due zakat is:   850
--------------------------------
Process exited after 2.88 seconds with return value 0
Press any key to continue . . .
```

Question number 04

```cpp
#include <iostream>

using namespace std;


int main()

{

double a;//variable for Initial velocity

double b; //varible for Acceleration

double c;//varible for final velocity

cout<<"Initial velocity:   ";

cin>>a;

cout<<"Acceleration:   ";
```

```cpp
cin>>b;

c=a+b;

cout<<"Final velocity:  "<<c;//formula fv= Iv + A


return 0;

}
```
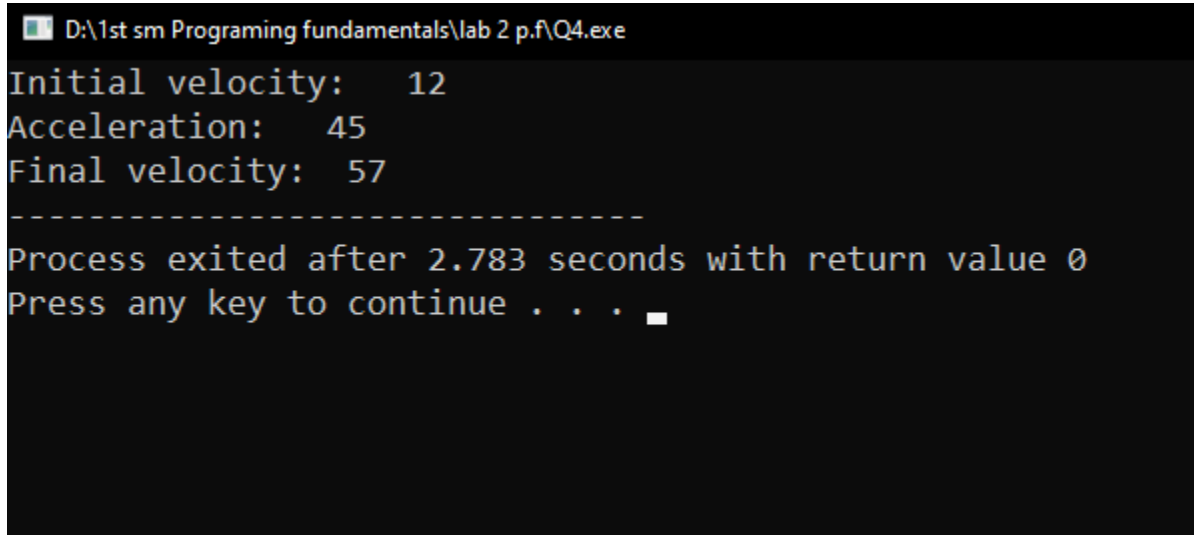
```
D:\1st sm Programing fundamentals\lab 2 p.f\Q4.exe

Initial velocity:    12
Acceleration:    45
Final velocity:   57
---------------------------------
Process exited after 2.783 seconds with return value 0
Press any key to continue . . . _
```

Question number 05

```cpp
#include <iostream>

using namespace std;


int main()

{

 double distance;

 double time;

 double speed;

 cout<<"Enter the distance value: ";

 cin>>distance;

 cout<<"Enter the time value:  ";

 cin>>time;
```
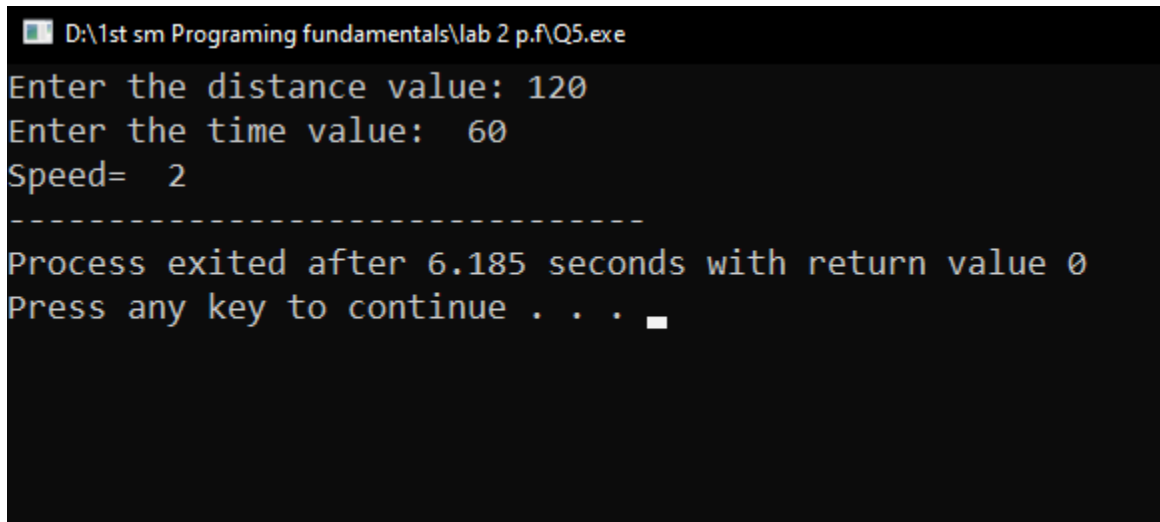
```
speed= distance/time;

cout<<"Speed= "<<speed;


return 0;

}
```

```
D:\1st sm Programing fundamentals\lab 2 p.f\Q5.exe

Enter the distance value: 120
Enter the time value:  60
Speed=  2
---------------------------------
Process exited after 6.185 seconds with return value 0
Press any key to continue . . . ▪
```

Question number 06

```
#include <iostream>

using namespace std;


int main()

{

 int a;

 int b;

 int x;

 cout<<"a: ";

 cin>>a;

 cout<<"b: ";

 cin>>b;

 x=2*(a+b)-2*a*b;

 cout<<"X: "<<x;
```
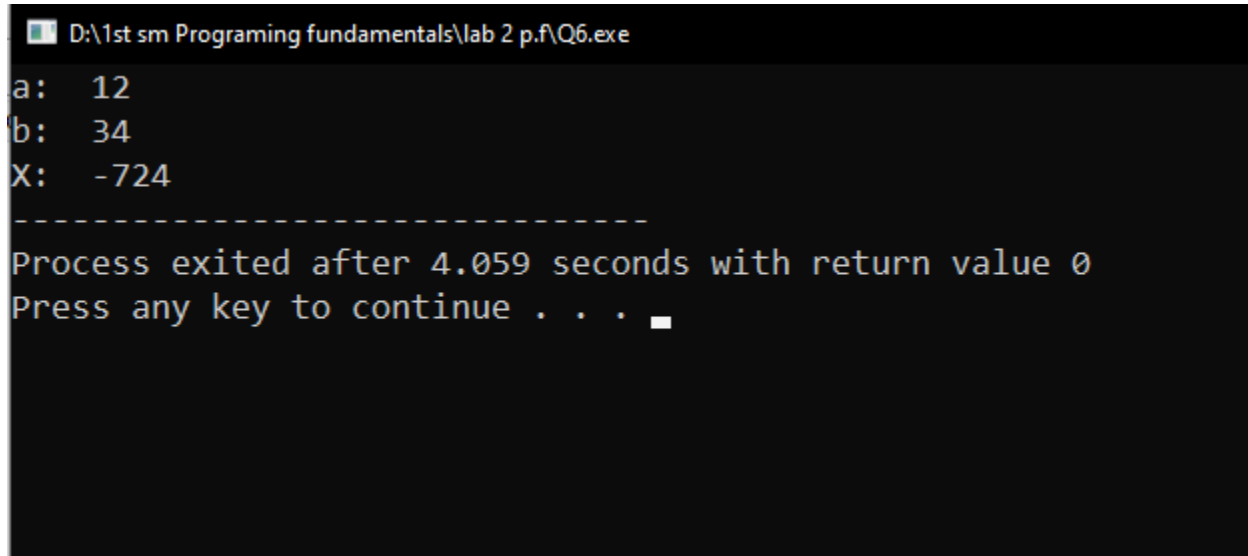
```
return 0;

}
```


Question number 07

```cpp
#include <iostream>

using namespace std;


        int main()

        {

        double marks1,marks2,marks3,marks4,marks5,obtained,percentage;


        cout<<"\t\t Mark-Sheet";


        cout<<endl;


        cout<<"English: ";


        cin>>marks1;
```

```cpp
    cout<<"Ict: ";

    cin>>marks2;

    cout<<"P.S: ";

    cin>>marks3;

    cout<<"Islamiat: ";

    cin>>marks4;

    cout<<"Maths: ";

    cin>>marks5;

    obtained=marks1+marks2+marks3+marks4+marks5;

    cout<<"Obtained marks is: "<<obtained;

    percentage=obtained/500*100;

    cout<<endl;

    cout<<"Percentage is: "<<percentage;

    return 0;

}
```

```
                    Mark-Sheet
English:  89
Ict:  78
P.S:  89
Islamiat:  6
Maths:  88
Obtained marks is:  350
Percentage is:  70
---------------------------------
Process exited after 10.04 seconds with return value 0
Press any key to continue . . .
```