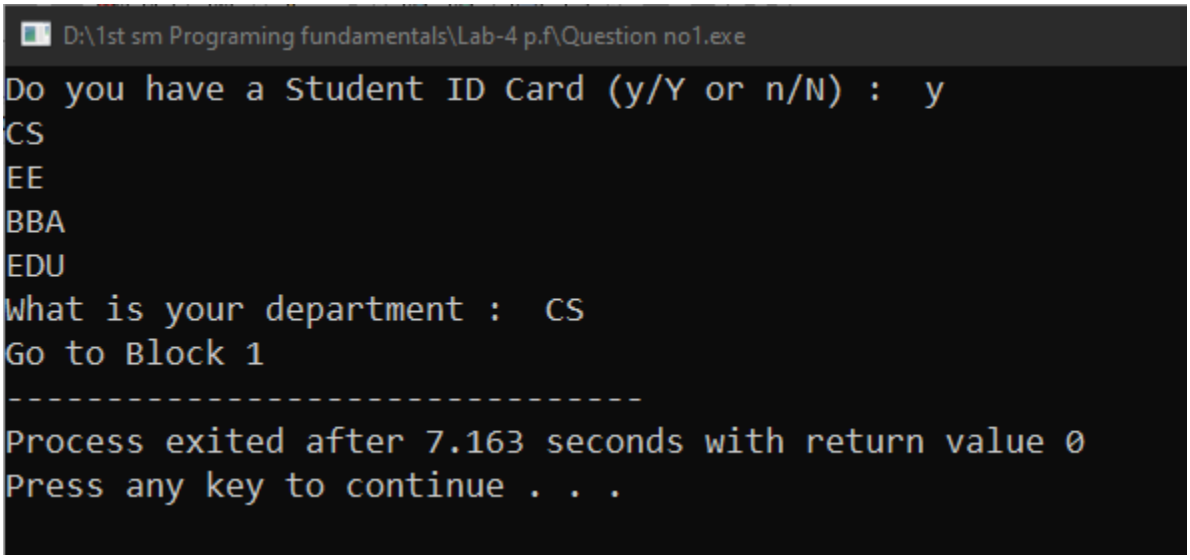
Task No1

```
#include <iostream>

using namespace std;


int main()
        {



         char answer;

         string dep;


         cout<<"Do you have a Student ID Card (y/Y or n/N) :  ";

         cin>>answer;


         if (answer=='y' || answer=='Y')

         {

                  cout<<"CS"<<endl;

                  cout<<"EE"<<endl;

                  cout<<"BBA"<<endl;

                  cout<<"EDU"<<endl;

                  cout<<"What is your department :  ";

                  cin>>dep;


                  if (dep=="CS")

                  {

                   cout<<"Go to Block 1";

                  }
```

```
                else if (dep== "EE")
                {
                        cout<<"Go to Block 3";
                }

                        else if (dep == "BBA")
                        {
                                cout<<"Go to Block 2";
                        }

                                else if (dep == "EDU")
                                {

                                        cout<<"Go to Knowledge Center";

                                }

                                else
                                {
                                        cout<<"Invalid Department Entry.";
                                }
}

        else if (answer == 'n' || answer == 'N')
        {
                cout<<"You are not allowed to enter !";
        }

        else
```

```
        {
            cout<<"your answer is not applicable";
        }


    return 0;


    }
```

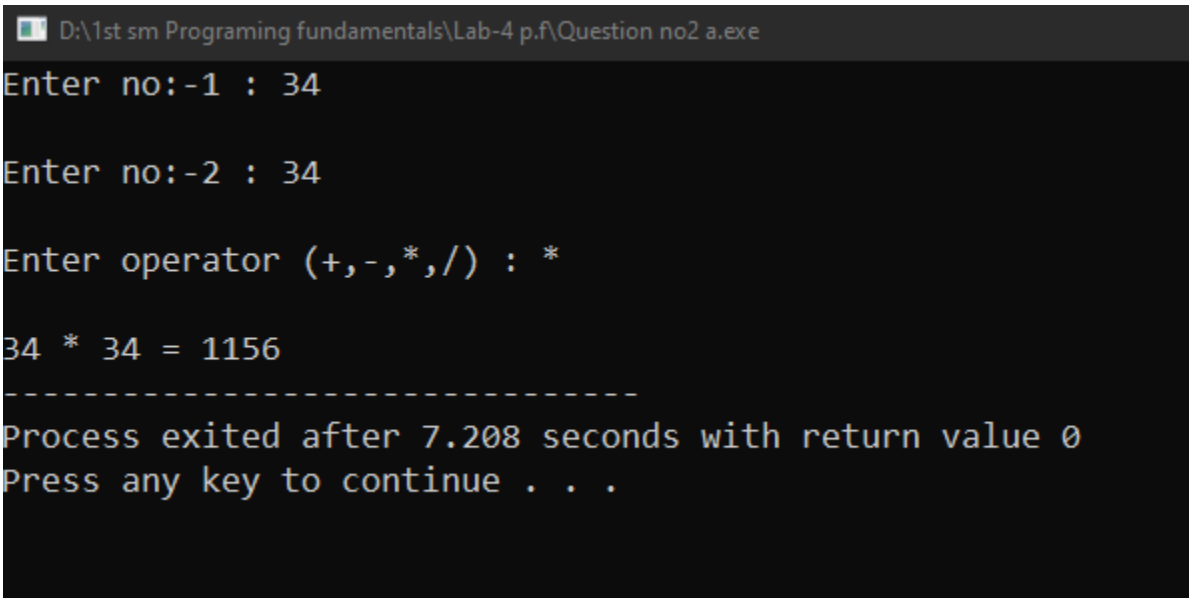


Task No2a

```
#include <iostream>

using namespace std;


int main()

{

    int num1 , num2 ;

    char op;


    cout<<"Enter no:-1 : ";
```

```
cin>>num1;
cout<<endl;

cout<<"Enter no:-2 : ";
cin>>num2;
cout<<endl;

cout<<"Enter operator (+,-,*,/) : ";
cin>>op;
cout<<endl;

switch(op)
{
        case '+' :
        cout<<num1<<" + "<<num2<<" = "<<num1+num2;
        break;

        case '-' :
        cout<<num1<<" - "<<num2<<" = "<<num1-num2;
        break;

        case '*' :
        cout<<num1<<" * "<<num2<<" = "<<num1*num2;
        break;

        case '/' :
        cout<<num1<<" / "<<num2<<" = "<<num1/num2;
        break;
```

```
                default :
                cout<<"Invalid Operator !!";
                break;
        }
return 0;
}
```



Task No2b

```
#include <iostream>
```

```
using namespace std;

int main()
{
	int num;

	cout<<"Enter the Number to see the month (1-12) : ";
	cin>>num;
	cout<<endl;

	switch(num)
	{
		case 1 :
			cout<<"The Month is January";
		break;

		case 2 :
			cout<<" The Month is February";
		break;

		case 3 :
			cout<<"The Month is March";
		break;

		case 4 :
			cout<<"The Month is April";
		break;

		case 5 :
```

```
        cout<<"The Month is May";
break;

case 6 :
        cout<<"The Month is June";
break;

case 7 :
        cout<<"The Month is July";
break;

case 8 :
        cout<<"The Month is August";
break;

case 9 :
        cout<<"The Month is September";
break;

case 10 :
        cout<<"The Month is October";
break;

case 11 :
        cout<<"The Month is November";
break;

case 12 :
        cout<<"The Month is December";
```

```
            break;

            default :
                cout<<"The number is out of range (1-12)";
            break;

        }

return 0;
}
```

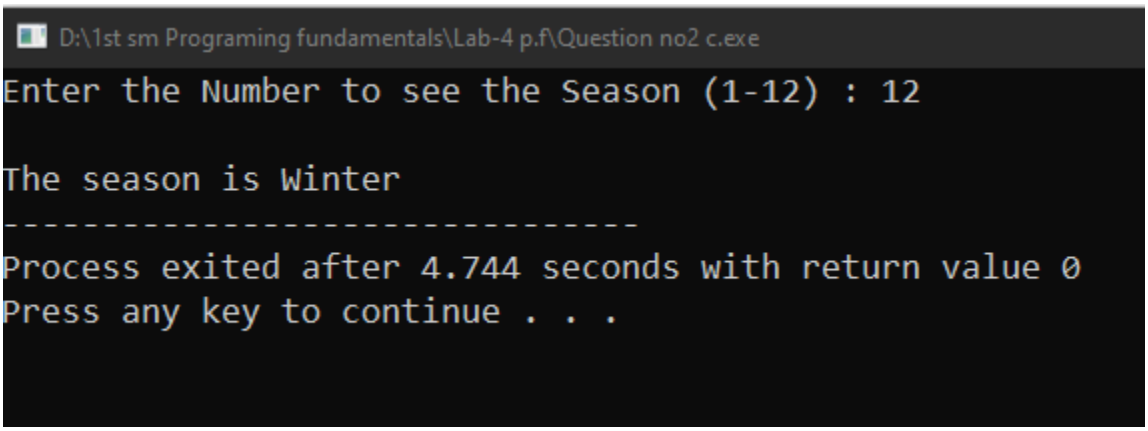
```
D:\1st sm Programing fundamentals\Lab-4 p.f\Question no2 b.exe
Enter the Number to see the month (1-12) : 10

The Month is October
--------------------------------
Process exited after 4.285 seconds with return value 0
Press any key to continue . . .
```

Task No2c

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

int main()
{
        int num;

        cout<<"Enter the Number to see the Season (1-12) : ";
        cin>>num;
```

```
cout<<endl;

switch(num)
{
        case 12 :
        case 1  :
        case 2  :
                cout<<"The season is Winter";
        break;

        case 3  :
        case 4  :
                cout<<"The season is Spring";
        break;

        case 5  :
        case 6  :
        case 7  :
        case 8  :
        case 9  :
                cout<<"The season is Summer";
        break;

        case 10  :
        case 11  :
                cout<<"The season is Autumn ";
        break;

        default  :
```

```
                cout<<"Entry is out of range (1-12)";
            break;

        }

return 0;
}
```



Task 2d

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

int main()
{
char alpha;
cout<<"\t Enter Alphabet :  ";
cin>> alpha;
cout<<endl;

        switch(alpha)
```

```
        {

        case 'a':
        cout<<"\t a is a vowel";
        break;

case 'b':
        cout<<"\t b is a consonent";
        break;

        case 'c':
        cout<<"\t c is a consonent";
        break;

        case 'd':
        cout<<"\t d is a consonent";
        break;

        case 'e':
        cout<<"\t e is a vowel";
        break;

        case 'f':
        cout<<"\t f is a consonent";
        break;

        case 'g':
        cout<<"\t g is a consonent";
        break;
```

```
case 'h':
cout<<"\t h is a consonent";
break;

case 'i':
cout<<"\t i is a vowel";
break;

case 'j':
cout<<"\t j is a consonent";
break;

case 'k':
cout<<"\t k is a consonent";
break;

case 'l':
cout<<"\t l is a consonent";
break;

case 'm':
cout<<"\t m is a consonent";
break;

case 'n':
cout<<"\t n is a consonent";
break;
```

```
case 'o':
cout<<"\t o is a vowel";;
break;

case 'p':
cout<<"\t p is a consonent";
break;

case 'q':
cout<<"\t q is a consonent";
break;

case 'r':
cout<<"\t r is a consonent";
break;

case 's':
cout<<"\t s is a consonent";
break;

case 't':
cout<<"\t t is a consonent";
break;

case 'u':
cout<<"\t u is a vowel";
break;

case 'v':
```

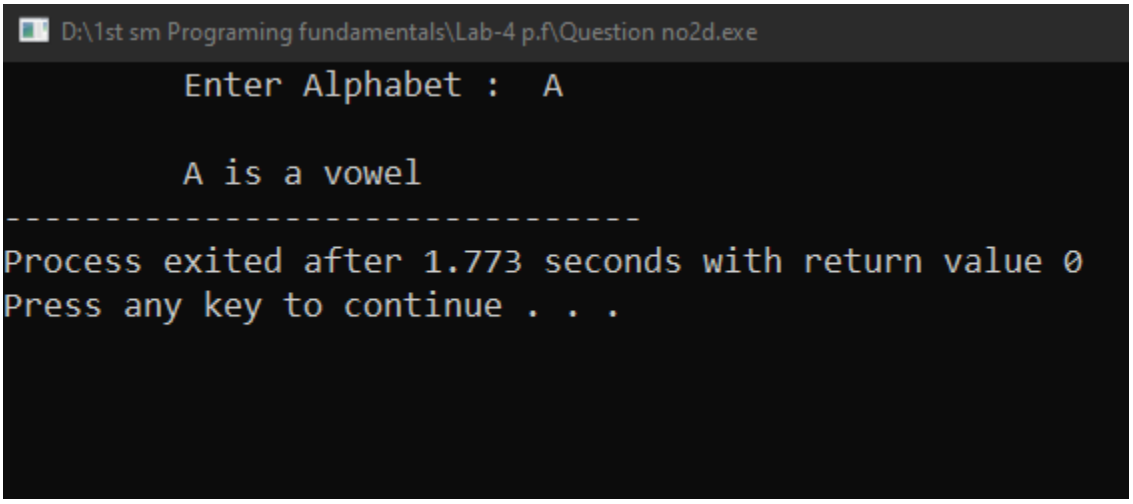
```
        cout<<"\t v is a consonent";
        break;

        case 'w':
        cout<<"\t w is a consonent";
        break;

        case 'x':
        cout<<"\t x is a consonent";
        break;

        case 'y':
        cout<<"\t y is a consonent";
        break;

        case 'z':
        cout<<"\t z is a consonent";
        break;




        case 'A':
        cout<<"\t A is a vowel";
        break;

case 'B':
        cout<<"\t B is a consonent";
        break;
```

```
case 'C':
cout<<"\t C is a consonent";
break;

case 'D':
cout<<"\t D is a consonent";
break;

case 'E':
cout<<"\t E is a vowel";
break;

case 'F':
cout<<"\t F is a consonent";
break;

case 'G':
cout<<"\t G is a consonent";
break;

case 'H':
cout<<"\t H is a consonent";
break;

case 'I':
cout<<"\t I is a vowel";
break;
```

```
case 'J':
cout<<"\t J is a consonent";
break;

case 'K':
cout<<"\t K is a consonent";
break;

case 'L':
cout<<"\t L is a consonent";
break;

case 'M':
cout<<"\t M is a consonent";
break;

case 'N':
cout<<"\t N is a consonent";
break;

case 'O':
cout<<"\t O is a vowel";;
break;

case 'P':
cout<<"\t P is a consonent";
break;

case 'Q':
```

```
cout<<"\t Q is a consonent";
break;

case 'R':
cout<<"\t R is a consonent";
break;

case 'S':
cout<<"\t S is a consonent";
break;

case 'T':
cout<<"\t T is a consonent";
break;

case 'U':
cout<<"\t U is a vowel";
break;

case 'V':
cout<<"\t V is a consonent";
break;

case 'W':
cout<<"\t W is a consonent";
break;

case 'X':
cout<<"\t X is a consonent";
```

```
            break;

            case 'Y':
            cout<<"\t Y is a consonent";
            break;

            case 'Z':
            cout<<"\t Z is a consonent";
            break;

            default:
            cout<<"\t Invalid Entry!!!!!!!!!!!!!!!!!! ";

      }

    return 0;
    }
```

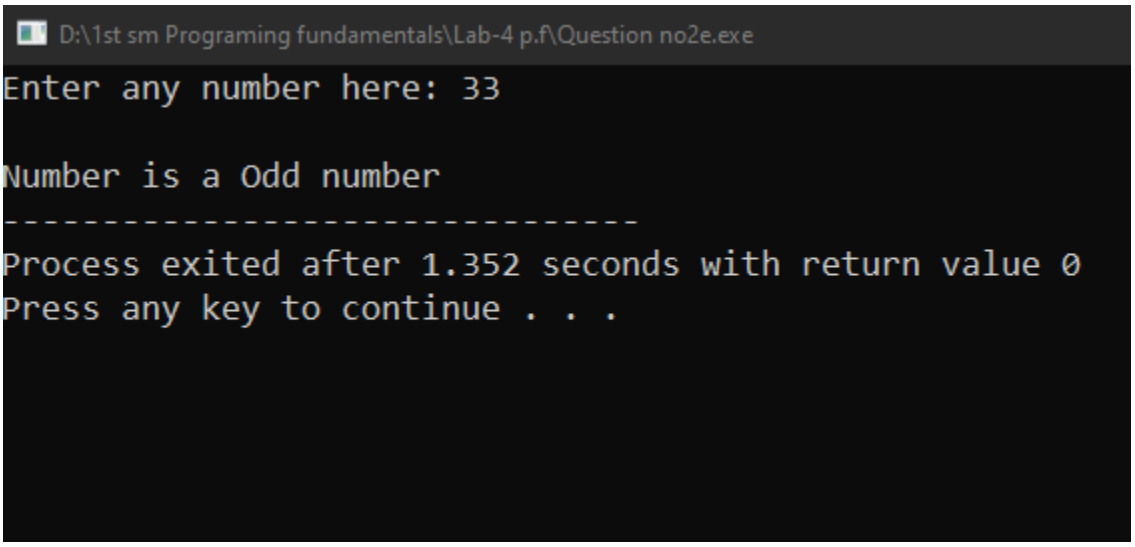


Task 2e

```
#include <iostream>

using namespace std;
```

```
int main()
{
 int number;
 cout<<"Enter any number here: ";
 cin>>number;
 cout<<endl;

        switch(number%2)
        {

        case  0:
                cout<<"Number is a Even number";
                break;
        case 1:
                cout<<"Number is a Odd number";
                break;
        default :
                cout<<"Invalid";
```

```
        }
return 0;
}
```


D:\1st sm Programing fundamentals\Lab-4 p.f\Question no2e.exe
Enter any number here: 33
Number is a Odd number

Process exited after 1.352 seconds with return value 0
Press any key to continue . . .