ASSINGMENT PROGRAMMING FUNDAMENTALS (SIR MANSOOR)

PROGRAM 01:

```
#include<iostream>
using namespace std;
int main()
{
	int age = 18;
	if (age>= 18)
	 {
		cout<<"You are eligible to vote."<<endl;
	 }

	 if (age>= 30)
	 {
		cout<<"You are not eligible to vote."<<endl;
	 }

	 return 0;
}
```

PROGRAM 02:

```
#include<iostream>
using namespace std;
int main()
{
	int score ;
	cout<<"Enter Your Score: ";
```

```
	cin>>score;
	if (score>=90)
	{
		cout<<"Grade: A"<<endl;
	}
	else if(score>=90)
	{
		cout<<"Grade: B"<<endl;
	}
	else if(score>=70)
	{
		cout<<"Grade: C"<<endl;
	}
	else
	{
		cout<<"Grade: F"<<endl;
	}

	return 0;
}
```

PROGRAM 03:

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

```
	int age;
	cin>>age;
	bool hasID = true;
	if(age>= 18)
	{
		if(hasID)
		{
			cout<<"Entry Allowed."<<endl;
		}
		else
		{
			cout<<"Please Show ID."<<endl;
		}
	}
	else
	{
		cout<<"Underage, Entry denied."<<endl;
	}

	return 0;
}
```

PROGRAM 04:

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

```
{
	int day;

	cout<<"Enter Day Number: ";
	cin>>day;

	switch(day)
	{
		case 1:
			cout<<"Monday"<<endl;
			break;
		case 2:
		   cout<<"Tuesday"<<endl;
			break;
		case 3:
		   cout<<"Wednesday"<<endl;
			break;
		case 4:
		   cout<<"Thursday"<<endl;
			break;
		case 5:
		   cout<<"Friday"<<endl;
			break;
		case 6:
			cout<<"Saturday"<<endl;
```

```
                    break;
            default:
                cout<<"Invalid Day"<<endl;

    }
    return 0;
}
```

PROGRAM 05:

```
#include<iostream>
using namespace std;
int main()
{
    int number;

    cout<<"Enter your Number: "<<endl;
    cin>>number;

    if(number>0)
    {
        cout<<"Number is Positive ";
    }

    if(number<0)
    {
        cout<<"Number is Negative ";
```

```
	}


	else
	{
		cout<<"Number is Zero";
	}


	return 0;
}
```

PROGRAM 06:

```
#include<iostream>
using namespace std;
int main()
{
	int n;


	cout<<"Enter a Number: ";
	cin>>n;


	if(n%2==0)
	{
		cout<<"Yeh number Even hai";
	}


	else
```

```
	{
		cout<<"Yeh number Odd hai";
	}

	return 0;
}
```

PROGRAM 07:

```
#include<iostream>
using namespace std;
int main()
{
	int num;

	cout<<"Enter Your Number: ";
	cin>>num;

	if(num>100)
	{
		cout<<"Yeh Number 100 is bara hai";
	}

	else
	{
		cout<<"Yeh Falto Number hai";
	}
```

```
        return 0;
}
```

PROGRAM 08:

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

   cout << "Enter the first number: ";
   cin >> num1;

   cout << "Enter the second number: ";
   cin >> num2;

   if (num1 > num2)
        {
      cout << "The greatest number is " << num1 << endl;
   }
         else if (num2 > num1)
         {
      cout << "The greatest number is " << num2 << endl;
   }
         else
```

```
        {
    cout << "Both numbers are equal." << endl;
  }

  return 0;
}
```

PROGRAM 09:

```
#include <iostream>
using namespace std;
int main()
{
  int year;

  cout << "Enter a year: ";
  cin >> year;

  if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))
        {
    cout << year << " is a leap year." << endl;
  }
        else
        {
    cout << year << " is not a leap year." << endl;
  }
```

```
    return 0;

}
```