

## COA

### DCSE, UET Peshawar

#### LAB2

#### **BRANCHING OPERATION:**

Q NO 1: Enter a number 5432 from user and then display the last digit in the console. (hint: use mfhi ).

Q NO 2: Check whether a number input by user is negative or equal to zero or greater than zero using branching ( Use bgt or ble ).

Q NO 3: Check using branch whether the number input by user are equal or not ( Use beq ).

Q NO 4 : Write the assembly of the below C++ code.

```
Int age;
Cout<<"enter your age"<<endl;
Cin>>age;
If(age > 18)
{
Cout<<"you can apply for CNIC"<<endl;
}
Else
{
Cout<<"you cannot apply for CNIC"<<endl;
}
```

Q NO 5: Write a program which take a limit from user and compute the sum of numbers from 0 to the limit ( Use bqe, add, addi, and J (jump)).

Below is the C++ language code:

```
Int limit;

Int sum;

Cout<<"Enter a number"<<endl;

Cin>>limit;

for (int i = 1; i <= limit; ++i) {
    sum += i;
}

Cout<<"sum of numbers from 1 to <<limit<<"is"<<sum<<endl;
```