**COA**

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**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 then 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;