**TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES**

**QUEZON CITY**

**COLLEGE OF INFORMATION TECHNOLOGY EDUCATION (CITE)**

**ITE001 – Computer Programming 1**

**NAME:**

**PROGRAM/SECTION:**

**ASSESSMENT TASK: Iterative or Repetition Control Structure using switch and for loop**

*The following question support the attainment of Course Intended Learning Outcomes (CILO):*Design computing based solution using control structures, functions, array and other statements

INSTRUCTION: Write a program the will let the user to enter a number and display the output based on CHOICES below.

#include<iostream>

using namespace std;

main(){

int num,ctr, trans, sum=0; string name;

cout<<" \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"\n \* Name: \*";

cout<<"\n \* Section: \*";

cout<<"\n \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*";

cout<<"Enter a Name: ";cin>>name;

cout<<"\nEnter a number: ";cin>>num;

cout<< "\n Transaction";

cout<<"\n 1.Display ascending order from 1 to " << num << " using for loop";

cout<<"\n 2.Display descending order from " << num << " to 1 using for loop";

cout<<"\n 3.Display all numbers divisible by 3 from 1 to " << num << " using for loop";

cout<<"\n 4.Display all numbers divisible by 8 from 1 to " << num << " using for loop";

cout<<"\n 5.Display the sum of 1 to " << num <<" using for loop";

cout<<"\n 6.Display the product of 1 to " << num <<" using for loop";

do{

cout<<"\n\n Enter transaction: ";

cin>>trans;

switch(trans)

{ case 1: for(ctr=1;ctr<=num;ctr++)

{ cout<<ctr <<" ";

}

break;

case 2: break;

case 3: break;

case 4: break;

case 5: for(ctr=1;ctr<=num;ctr++)

{ sum=sum+ctr;

}

cout<< "The sum is "<<sum; break;

case 6: break;

default: cout<< "Invalid"; } //end of switch

} while(trans<=6); // end of do while

} //end of main

SOURCE CODE:

OUTPUT ( SCREEN SHOT all output from case 1 to 8)

