

**National University of Computer and Emerging Sciences, Lahore Campus**

**Programming Fundamentals**

**QUIZ 7(Version B)**

**Section:** BCS-1H  **Date:** 3rd November 2022

**Q1: Write the Output of the following code and Identify error if any:**

#include<iostream>

using namespace std;

void fun(int& rem, int& num, int& pow, int& noOfDigit, int& res, int& i)

{

rem = num % 10;

pow = 1;

i = 0;

while (i < noOfDigit)

{

pow = pow \* rem;

i++;

cout << pow << endl;

}

res = res + pow;

num = num / 10;

cout << res << endl;

}

int main() {

int num = 55, temp, noOfDigit = 0, res = 1, rem, pow, i;

temp = num;

while (num > 0) {

num = num / 10;

noOfDigit++;

}

num = temp;

while (num > 0) {

fun(rem, num, pow, noOfDigit, res, i);

}

if (res == temp)

cout << "\nAS Number";

else

cout << "\nnot AS Number";

cout << endl;

return 0;

}

**Q2: Write the Output of the following code and Identify error if any:**

#include <iostream>

using namespace std;

int func(int& x, int y = 10) {

if (x % y == 0)

return ++x;

else

return y--;

}

int func(int x, float y) {

if (x % y == 0)

return ++x;

else

return y--;

}

int main() {

int p = 20, q = 23;

q = func(p, (float)q);

cout << p << " " << " " << q << endl;

p = func(q);

cout << p << " " << " " << q << endl;

q = func(p);

cout << p << " " << " " << q << endl;

return 0;

}

**Q3: Write the Output of the following code and Identify error if any:**

#include<iostream>

using namespace std;

int Function(int n1)

{

int i, sum;

sum = 0;

for (i = 1; i < n1; i++)

{

if (n1 % i == 0)

{

sum += i;

cout << sum<<endl;

}

}

if (sum == n1)

return 1;

else

return 0;

}

void Numbers(int stLimit, int enLimit)

{

while (stLimit <= enLimit)

{

if (Function(stLimit))

{

cout << stLimit;

}

stLimit++;

}

}

int main()

{

int stLimit = 3, enLimit = 6;

Numbers(stLimit, enLimit);

}