BRAIN INTERNATIONAL SCHOOL

Computer Science Assignment **Class XI** **October,2018**

Chapter-11. Functions

Question 1 Write a program using function which accept two integers as an argument and return its sum. Call this function from main( ) and print the results in main( ).

Question 2 Write a function to calculate the factorial value of any integer as an argument. Call this function from main( ) and print the results in main( ).

Question 3 Write a function that receives two numbers as an argument and display all prime numbers between these two numbers. Call this function from main( ).

Question 4 Raising a number to a power p is the same as multiplying n by itself p times. Write a function called power that takes two arguments, a double value for n and an int value for p, and return the result as double value. Use default argument of 2 for p, so that if this argument is omitted the number will be squared. Write the main function that gets value from the user to test power function.

Question 5 Write a function called zero_small() that has two integer arguments being passed by reference and sets the smaller of the two numbers to 0. Write the main program to access the function.

Question 6 Write the output of the following program :

```
#include <iostream.h>
void X(int &A, int &B)
{
        A = A + B;
        B = A - B;
        A=A-B;
}
void main()
{
        int a = 4, b =18;
        X(a,b);
        cout<<a<<","<<b;
}
```

Question 7 Write the output of the following program:

```
#include <iostream.h>
void X(int A, int &B)
{
        A = A+B;
        B = A-B;
        A = A-B;
}
void main()
{
        int a=4, b=l8;
        X(a,b);
        cout<< a <<”,”<<b;
}
```

Question 8 Write the output of the following program:

```
# include <iostream.h>
void Execute(int &B, int C=100)
{
        int TEMP = B + C;
        B += TEMP;
        if (C == 100)
                cout<<TEMP<<" "<<B<<" "<<C<<endl;
}
void main()
{
        int M= 90, N = 10;
        Execute(M);
        cout << M << “ “<< N << endl;
        Execute(M,N);
        cout << M<<“ "<<N<< endl;
}
```

Question 9 Give the output of the following program

```
# include <iostream.h>
int global = 10;
void func(int &x, int y)
{
        x = x - y;
        y = x * 10;
        cout << x << << y << '\n';
}
void main()
{
        int global = 7:
```

```
        func (::global, global);
        cout << global <<”,” << ::global <<’\n’;
        func(global,:: global);
        cout<< global << “,”<<::global<<‘\n’;
}
```

Question 10 Write the output of the following program :

```
# include <iostream.h>
static int i=100;
void abc()
{
        static int i=8;
        cout<< "first=" <<i++;
}
main()
{
        static int i = 2;
        abc();
        cout << "second =” << i << endl;
        abc();
}
```

Question 11 Write the output of the following program:

```
# include <iostream.h>
int func(int &x, int y = 10)
{
        if (x%y == 0)
                return ++x;
        else
                return y--;
}
void main()
{
        int p=20, q=23;
        q=func (p,q);
        cout << p << " " << " " << q << endl;
        p=func (q);
        cout<< p << " " << " " << q << endl;
        q=func (p);
        cout << p << " " << " " << q << endl;
}
```