

Assignment

March2022/ C-Programming/Assignment 3
C-Programming Revision
Post Graduate Diploma in Advance Computing
March 2022

Section- Functions

Q1. Write user defined function to accept number from user and find the square of that number and display it in function itself. (declaration, definition and call required)

```
void find_square(int n){}
```

Q2. Write user defined function to accept number from user and display if it is positive or negative.

```
Void check_positive(int n){}
```

Q3. Write user defined function to accept number from user and find factorial of that number.

```
void find_fact(int n){}
```

(for ex. if number entered is 5 then output should be 120)

Q4. Write user defined function to return sum of two numbers to main() and display the result in main(). (make use of return statement)

```
Int sum(int n1, int n2) {  
    Your code ....  
    return result;  
}
```

Q5. Write user defined function to find sum of digits of user entered number and display the sum in main(). (for Ex- if number is 123 output should be 1+2+3=6. 6 should get displayed) (Form the function on your own give relevant name)

Q6. Write user defined function to find entered number is prime or not.) (Form the function on your own give relevant name)

Q7. Write a function to check whether entered number is Armstrong number or not. (Form the function on your own give relevant name)

(if Number is 153 = $(1*1*1) + (5*5*5) + (3*3*3) = 153$ Cube of addition of individual digits is that number itself.). (do it by call by value). (Form the function on your own give relevant name)

Q8. Write a Menu driven program for following options

1. Add
2. Subtract
3. Multiply
4. Divide
5. Exit.

For doing Addition, subtraction, multiplication, division write separate functions as follows.

```
void add(int n1, int n2)  
void sub(int n1, int n2)  
int mult(int n1, int n2)  
int div(int n1, int n2)
```

Q9. Print Multiplication tables from 2 to 10 in a user defined function. (Form the function on your own give relevant name)

Q10. Write a function to display prime numbers from 1 to 100. (Form the function on your own give relevant name)