**Computing Fundamentals & Programming**

**Assignment 7**

**Question 1**

Write a C++ program that reads 10 numbers from the user, stores them into an array

void storeIntoArray()

{

int a,num[10];

cout<<"Enter numbers :"<<endl;

for (a=0; a<10; a++)

{

cin>>num[a];

}

}

**Question 2**

Prints the largest, smallest number, and the sum of all the numbers on the screen.

void largestAndSmallestNumber()

{

int max,min,num[0],a,sum=0;

max= num[0];

for (a=0; a<=10; a++)

{

cout<<"Enter any number:";

cin>>num[a];

if (max<num[a])

max=num[a];

sum=sum+num[a];

}

cout<<"Larger number = "<<max<<endl;

min= num[0];

for (a=0; a<10; a++)

{

if (min>num[a])

min=num[a];

}

cout<<"Smaller number is= "<<min<<endl;

cout<<"Sum is: "<<sum;

}

Example: If the User enters 11, 2, 15, 34, 18, 2, 15, 18, 15, 50 then program should print: Largest = 50, Smallest = 2 and SUM = 180

**Question 3**

Print the sum of odd and even number.

Example: If the user enters 11, 2, 15, 34, 18, 2, 15, 18, 15, 50 then the program should print: Sum of even numbers = and Sum of odd numbers

void sumOfEvenAndOdd()

{

int b,a,even=0,odd=0,num[10];

for (a=0; a<10; a++)

{

cout<<"Enter any number: ";

cin>>num[a];

if (num[a]%2 == 0)

{

even = even + num[a];

}

}

cout << "Even numbers sum : "<<even<<endl;

for (b=0; b<10; b++)

{

if (num[b]%2 != 0)

{

odd = odd + num[b];

}

}

cout << "Odd numbers sum: "<<odd<< endl;

}

**Question 4**

Print the count of numbers that are perfect squares

Example: If the user enters 11, 4, 15, 9, 18, 2, 25, 18, 15, 49 then program should print:

There are 4 perfect squares

void numberOfPerfectSquares()

{

int sqr;

int num[10];

int total=0;

for(int i=1;i<=10;i++)

{

cout<<"Enter any number";

cin>>num[i];

sqr=sqrt(num[i]);

if(num[i]==sqr\*sqr)

{

total=total+1;

}

}

cout<<"The amount of total perfect squares are"<<total;

}