Ex1

public static void insert10(Stack<Integer> a)

{

Scanner s = new Scanner(System.in);

System.out.println("Enter 10 numbers: ");

for (int i = 0; i < 10; i++) {

a.push(s.nextInt());

}

}

EX2

public static int sumAll(Stack<Integer> a)

{

int sum =0;

for (int num : a) {

sum+= num;

}

return sum;

}

Ex3

public static int sumGT20(Stack<Integer> a)

{

int sum =0;

for (int num : a) {

if(num >20)

sum+= num;

}

return sum;

}

Ex4

public static int minMethod(Stack<Integer> a)

{

int min =a.peek();

for (int num:a) {

if(num<min)

{

min = num;

}

}

return min;

}

Ex5

public static int maxSum(Stack<Integer> a, Stack<Integer> b)

{

int sum1 =0;

int sum2 =0;

for (int num : a) {

sum1+= num;

}

for (int num : b) {

sum2+= num;

}

if(sum1>sum2)

return sum1;

else

return sum2;

}

Ex6

public static boolean search(Stack<String> a,String item)

{

return a.contains(item);

}

Ex7

public static int maxItemlength(Stack<String> a)

{

int max = 0;

for (String item : a) {

if(item.length()>max)

max = item.length();

}

return max;

}