Std 10 The Brigade School Revision worksheet 4 (2020-21)

Total points 30/30

STD 10 Computer Applications

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School : *

TBSG

Name : *

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Class : *

10 A

Part B(Marks: 30)

✓ Question 3: Write a program to accept 10 different decimal numbers (double data type) in a Single Dimensional Array (say, A). Truncate the fractional part of each number of the array A and store their integer part in another array (say, B). * 15/15

```
import java.util.*;
class truncate
{
public static void main(String args[])
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter 10 numbers");
double a = new double[10];
int i=0;
for( i=0;i<10;i++)
{
a[i]=sc.nextDouble();
}
int b=new int[10];
for(i=0;i<10;i++)
{
b[i]=(int) a[i];
}
for(i=0;i<10;i++)
{
System.out.println(b[i]);
}
}
}
```

VARIABLE DESCRIPTION TABLE

Variable's Name -- Datatype -- Description
a[10] -- double -- SDA to store 10 elements with the fractional part
b[10] -- int -- SDA to store 10 elements with the fractional part truncated
i -- int -- Loop variable

✓ Question 4: The class teacher wants to store the marks obtained in English, Maths and Science of her class having 40 students. Write a program to input marks in Eng, Science and Maths by using three single dimensional arrays. Calculate and print the following information:(i) Average marks secured by each student.(ii) Class average in each subject.[Hint: Class average is the average marks obtained by 40 students in a particular subject.] * 15/15

```
import java.util.*;
class marks
{
public static void main(String args[])
{
Scanner sc=new Scanner(System.in);
System.out.println("Enter marks of 40 students in English");
int e = new int[40];
int i=0;
for(i=0;i<40;i++)
{
e[i]=sc.nextInt();
}
System.out.println("Enter marks of 40 students in Maths");
int m = new int[40];
for(i=0;i<40;i++)
{
m[i]=sc.nextInt();
}
System.out.println("Enter marks of 40 students in Science");
int s = new int[40];
for(i=0;i<40;i++)
{
s[i]=sc.nextInt();
}
int avg = new int[40];
for(i=0;i<40;i++)
{
avg[i]=(e[i]+m[i]+s[i])/3;
}
for(i=0;i<40;i++)
{
System.out.println(The average of student "+i+" is ");
avg[i];
}
int e1=0;
int m1=0;
int s1=0;
for(i=0;i<40;i++)
{
e1=e1+e[i];
```

```
m1=m1+m[i];
s1=s1+s[i];
}
System.out.println(" The average of English is "+(e1/40));
System.out.println(" The average of Maths is "+(m1/40));
System.out.println(" The average of Science is "+(s1/40));
}
}
```

VARIABLE DESCRIPTION TABLE

Variable's Name -- Datatype -- Description
e[40] -- int -- SDA to store english marks of 40 students
m[40] -- int -- SDA to store maths marks of 40 students
s[40] -- int -- SDA to store science marks of 40 students
avg[40] -- int -- SDA to store average of each students
e1 -- int -- Stores the total of 40 students in english
m1 -- int -- Stores the total of 40 students in maths
s1 -- int -- Stores the total of 40 students in science
i -- int -- Loop variable