Assignment-1.

Name: G. Deepak Reddy

70: 2100031817

Dale: 14-02-2002

COUMY: CTOOD

Submitted to: Dre N Rajesh Barbu

Tacher's Signature:

) List the knywords in Java.

2)

abstract	boolean	brecić	byte
care	coatch	char	class
continue	default	do	double
elee	enum	extinds	finally
float	-603	rL	impurunts
impost	instanceof	int	interface
long	native	New	null
package	poivate	protected	public
return	stoot	Static	stoictfp
Buper	switch	synchronized	this
40000	throws	t ransient	toy
void	volotile	cohile	

List of all the dotatypes, sizes and ranges in

Data type	Size	Description
byte	1 byte	stores whole number from -128 to 127
Short	2 bytes	stores whole numbers from -32,768 to 32,767
int	4 bytes	whole numbers from -2,147,483,648 to 9,147,483,
long	8 bytes	-9,223,372,036,854,778,808 to 9,223,372,036,
float	4 bytes	-9,223,372,036,854,778,808 to 9,223,372,036, 859, 778, 807 Stores fac numbers (6 digits precision)
double	1 bit	Stores tou/false values
boolean	1 bit	stores tour/falu valus
char	2 bytes	stores a siyle character

```
Write the Syntax of conditional stabnents and
loops in Java with an example of each
Java has the following get of conditional
stalinunts
                 (i) if
                (ii) else
                (iii) elec-if
                (ill) switch can
Example for "if" conditional statement
public class Main &
       public static vold main (string[] args) 2
        if (20 >18)
              System.out.poinln("20 > 18");
 Output: 20 >18
Example for 'if-else' conditional stabnum
 public class Main }
       public static void main (string[] arys) {
        int x = 19)
        if (x1/.2==0)
                 System out pointln (" Even");
        elu
                system. out. pointln ("Odd");
```

```
Output: Even
Example for 'clei-if' conditional stabilities
 public class Main 1
     public static word main (string[] anys) }
           int x=-1;
           (1 (x>0)
                 Egetern · out · point ln (" > ");
           cle if (x==0)
                 System.out. pointln ("=");
                 system.out. pointln ("z");
           che
output: <
Short Hand if ... Else (Tirnary Operator)
public class Main &
   public static void main (string[] arys) {
          int x=33;
          int res = (2715) } sout(); sout(o);
Output: 1
```

```
Example for Java Scottch Stalinumts
       public class Main }
            public static void main (string[] arys) {
                 int x= 2;
                switch (x) {
                 Call 1: sout ("one");
                          break;
                 can 2: sout ("two");
                           break;
                  default: sout ("ERROR");
 output: one.
 Java has 3 type of looping statements
```

Java has 3 type of looping statements

(1) while loop

(11) do while loop.

```
9
```

```
Example for 'cohile' loop in Java
public class collulop Deno
      public static word main (string anyse])
            int x=1;
            cohile (x2=4)
                system out point la(x):
                 X ++;
output: value of 1 1
Enample for 'for loop' in Java
 Class fooloop Demo
        public static word main (string args[])
             for ( tot x=2; x <= 4; x++)
                      sydem. out. pointly (x);
            4
```

```
output:
          9
          3
          4
Enauple for 'do cohili' loop in Java
class dowhileloop
     public static void main (String arys[])
            int x=2;
            010 {
                    system out pointln (x);
              I cohile (x290);
        21
Output:
```

(0)

create a class student corth id, marks for 3 students subjects, total as static variables, static nuthod to compute the total, main nuthod to point the student information. Modulative the code to class and package livels.

```
package com. DespakPready;
impost java util. Scanno;
public class Main &
       public static int add (int a, int b, intc) {
              reduran a,b,c;
        8
        public static rold main (string [] arys) &
              Scanno SC= No Scanner (Systemin);
              Int 81 = SC WARTER ():
             int 32 = 3c. NATJUA();
             int 33 = BC . next Int();
             int total = add (31,32,33),
             System. out poulln (total):
    4.
```

```
Public class Main
        public static by add (int x, indy) ;
              return KAY;
         Y
         public static intadd (inta, int b, int c) {
                  return anbico
          4
         public static intadd (intal)
         4
               int sum = 0;
               for ( int 1:0; 120 hyph; 1+4)
                & sum + = a Cij;
                return Bun:
         public static void main (string[] arys) (
              int x=2, y=3, 3=4;
              INT [] a= 21,2,8,0,7 4;
              ind rest = add (my):
             System out, phind in (roes):
             int ress = add (x14,3);
             Bystem. out. println (ness);
             int roesa = add (a);
             System. out println (ress):
        4
```

impost java util Scanne; public class Main & public static int add (int xinty) { setuon x+4; 4 public static int add (int a, int b, int c) d return athti 4 public stic int add (int all) int sum so: for (int 1:0; ica. byth; 140) 8um += a[i]; redum sum: public static void main (strigE) arys) { Ind KIN 3; intal] = new int [8]: Byslem. out prival (ender x,421): X = SC. MXL JUH(): 4= 8C. MINITH(); 3 = SC. WH I NA(); System. out. privila ("enter due climats of array: "): for (int 100; 125; 1++) all = sc. New Just ():

int rest = acti(riy);

Bystem. out. println(rest);

int rest = add (riy is);

Bystem. out. println (roest):

int rest = add(a);

System. oct. point ln(rest);