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                                   * Refer operators lesson
                                              26/02/2019
        C-Sample Paper (18.2)
                                          P= 10 ' 9=3
   (A)
        a.) r= p++ + q++
               = 10 + 3
                                               p++ (post increment
                                                 doesn't change
               = 13
                                               ++P (pre increment
        b) r=p-- 1/. q
                                             1. modulus
               = 10 % 3
                                             / divide
                                               (quotient)
        e) r = --p / -- q
              = 4 (it cannot be 4.5 because datatype is int
            r= ++p * 9++
        4)
               = 11 * 3
                                      y= exponent
   (B) # include <stdio.h>
                                       2 2 base
      int main () {
         int x, y, c, power = 1;
                                          INA CXXX
         printf ("Enter value for x and y");
         Scanf (" Y.d Y.d ", 4 x , by );
* Refer
loops.
         for (c=1; c <=y; c++)
         1
            power = power * x;
         printf ("Answer is 1.d In", power);
```

- a) What is the general format of for loop, on which occasions you use a 'for loop'?
  - for (expression 1; expression 2; expression 3)

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- \* For is used to represent an iteration or repetition within a program.
- b) Write a single printf statetment to display the values of an integer X and float variable Y.
  - >> printf ( " 1.d " / f " , x , y ) ;

OR ( < string ) 1 to 8

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printf (" x = 1/d y = 1/.f", x, y);

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- c.) Declare and assign values for four different variables with four different data types
  - -> int a = 10;

    char b = 'c';

    float C = 12.5;

    double d = 58752.62

t use single quate for single character

d) What are the assignment operators and when we ' use them? / = Assignment operators are used to write an arithmetic expression is a short form Ex: X = X + 10 as X + = 101 mark) e.) Explain the general formula and the use switch conditional structure. switch ( < variable > ) \*Study a case < option 1 > : //statement , break ; program using case < option 2> : // statement Swetch. , break ; case < option 3>: // statement ; break ;

default : statement;

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(2)
 1.) Use adding 2 numbers as an example and write four
   different functions to explain the behavior and
   use four different function types
-> No return type, no parameters
   # include <stdio.h>
   void sum()
        int x, y, sum;
        printf ( " Enter two numbers : ");
        scanf (" 1. d 1.d ", &x &y);
        Sum = x +y ',
        printf (" The sum is 1.d", sum);
   4
   int main ()
   t
          sum () .
   3
> No return type, with parameters
   # include <stdio.h>
   void sum ( int a , int b)',
                                        * value of x
                                         goes to a
   9
                                        + value of y
       int z:
                                          goes to b
       z = a + b
       printf ("The Sum is 1.d", z);
   3
   int main ()
         int x, y',
         print f (" Enter two numbers: ");
         scanf ("Y.d Y.d", &x, &y);
         sum ( x, y);
```

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return z;
-> With return type, no parameters
   # include <stdio.h>
   int sum()
   £
         int x, y, z;
         printf (" Enter two numbers ");
         scanf (" Y.d Y.d", &x, &y);
         Z = x+4,
   return z;
   3
   int main ()
        int c = sum()',
         printf (" The sum is 1.d", c);
   4
-> With return type, with parameters.
   #include <stdio.h >
   int sum ( int x, int y)
         int z;
         z = x +4;
  refurn 2;
  int main ()
  3
          int a, b, c;
          printf ("Enter two numbers");
          scanf (" 1.d 7.d", &a, &b);
           C = sum (a, b):
           printf ("The sum is 1.d \n", c);
```

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B) Create a function to provide three integers as

parameters to a function and find and return

the highest number. Input 3 numbers in the

main function, call the function and display the

highest number.

int findmax (int a, int b, int c)

int max;
```

int max,

if (a>b)

max = a

else if (b>c)

max = b...

else max = c

return max;

int main ()

int x, y, z;

printf ("Enter three numbers: ");

scanf ("%d %d %d",&x,&y,&z);

int ans = find max (x,y,z);

printf ("The highest is y.d \n", ans);

```
(3.)
(A) I.) Input 10 float values and store them in an array
-> int main() {
     float air [10];
     int i;
     for (i=0; i < 10; i++)
          printf ("Enter a value in the element 1.d", i+1):
          Scanf (" ",f", arr [i]);
     3
 I.) Display the values of the above array.
    int main ()
   1
     float arr (10);
     int i;
     for (i = 0; i <10; i++)
         printf ("Enter a value in the element 1/d", i+1);
         Scanf (" Y.f ", air (i])",
   for ( i=0; i<10; i++)
      printf ("Y. 2f", arr Ci]);
  3
```

III.) Find and display the minimum value. float = arr [o] : for (i=1; i < 10; i++) if (arr Ci) < min) min = arr [i] . 3 printf (" The lowest is 1.. 2f", min); (B) Declare a multi-dimensional array with the size of 3 x 4. Input values to the array and display the average value 3 x 4 for (r=0; r<3; r++) 0 5 for (c=0; c<4; c++) 2 printf ("Enter a value"); + row by row. scanf (" Y.d, & V[r](c]); Sum = Sum + V [T] [c] ;

avg = (float) sum / 12; Printf (" The Average is Y. 2f \n", avg);

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