ASSIMMENT (03)

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Seaction 18 Sig: Row

:- Defermine Output following Program:

```
O)
    main ()
         Printf ("In Only stupids use e?");
          display ();
      display ()
          Printf ("Infook too use c!");
            main ();
```

Out put:

- · fools too use c!

ASSIMMENT 19: a):main() coure Damer Robit Roj Printf ("In C to void a main (); ş Out put:-· c to if that c survices. ma C1:d):- moin () main () Int i= Us c; int 1= 45, c; c= multiply (1×1000) c = cheak (i); print("In 1,d", c); Print f ("/d", c); y check (int ch) 6) = (cheact (int ch) if (ch = 40000) if (ch >= Us) when (ch/16); zeturn (100); else return (10) else retur (10°10); Out puti-Out put:

. 4500

100.

point out the exect, is any, in the following program.

```
a):-
    corret programis:
   void addmut (int ii, intii, int sum, int speeduct)
    $
      *Sum = ii+ji;
                                    c:- · corret program:
      * Product= ii* ii;
                                       main () $
                                           Float 0= 15.5;
    main()
                                            ehae ch= 'C';
                                         Printit(o, ch);
      inti= 3, j= U, kilj
       addinult (12, 6k, 4L);
                                     voic Printitia, eh) &
      printf ("In-101-1-1), k,1);
                                              Peint f("In 1.f.1.e", a sch);
    could purgiam:
      voic massage ()
          printf ("In Viruses are written in c");
            setuh;
      main()
           massage();
```

```
Point out the exist, it any,
                        by the following program.
e: loveet program is:
  void let-us-e ();
  main ()
     let_US-c();
 void let-us-c (13
      printf("Inc is cimple minded language!");
     printf ("Inother are of cource no math!");
    correct program:
    void massage ();
    melin ()
       massage ();
    void manage () }
       paintf ("n Praise worthy and a worthly are synonym");
     y.
```

: Weite the following programs.

```
(1.7):
```

```
# include (stdio.h)
                             If I d s) man I'm Krown
      factorial (int c)?
      if (n==0) {
         return 1;
      else {
         return no factorial (n-1);
                                   printf ("Enter base ");
                                    Swall od Charlings:
  int main()}
                                 proditt ("Enter enterente"):
      int num:
       printf ("Enter an integer:"); ( to sope ) ( be") 1 10003
scanf ("%d", Enum); a round of a break by ) houry
       4 (num <0) &
          printf ("factorial is not defined for negative number. In");
       Jelse {
          printf ("factorial of %d is %d \n", num, factorial (num));
      return 0;
  5
```

L CELLET

```
# include (stdio.h)
int power (int a. int b) [
     4 (b==0){
        return 1;
                                                              4. 1
    ] else ?
        return a* power (a, b-1) };
    3
int main () {
     int base, exponent;
    printf("Enter base: ");
    Scanf ("%d", & base);
    pintf ("Enter exponent:");
    scanf ("%d", & exponent); (" register to ville ") there
    printf("/d raised to the power of %d is %d In , base , exponent ,
           power (base, exponent));
```

```
# include «stdio.h»
int is-leap-year (int year) {
     if (year %. 4==0)[
        4 (year % 100==0) {
           return year 7. 400 == 0;
        Jelse &
            return 1;
   Jelse E
        return o;
     main () {
      int year;
      printf("Enter a year:");
     scanf ("%. d", & year);
     if ( is_leap-year (year))[
        printf("%d is a leap year. \n", year);
     I else [
         printf ("% d is not a leap year. In", year);
     return 0;
```

```
# include (stdio.h)
 void prime factors (int n) &
   int;
   print f ("Prime factors of % d are: ", n);
    for (1=2; i(=n; i++)?
       while (n'/ 1==0){
         print f( "%d, i) &;
         n/=1;
 int main () ?
    pmitf ("Enter a positive number: ");
    scanf("%d", & num);
    prime-factors (num);
    return 0;
```