Assignment -10

O write a function to calculate area of par circle (TSRS)

post area (Hoat);
int main ()

f front n);

prints (" Enter radius");

Scar (" 1.4", 9");

prints (" area is 1.6", area (n));

return 0;

) Wat area (Met &)

return 3:14* 2*2;

@ write a function to colculate minter interest (TSRS) # include cs+dio. h> float Interest (Host, Host, Host); int main () of front a, b, C; printl(Enter the principal, rate and anount value [m"]; Scarf ("1. + + + + + + , 4a, 41, 9c); privite (" simple interest is 1.26", interest (a, b, c)), letur 0; Hoat interest (Hoat P, Hoat R, Host T) { retur (PXR*T)/100;

```
1 3 write a purction to check whether a
    giver number is even or odd. returns
     if the number is ever, other wise return
     O. (TSRS).
         # include cs +dio, h)
            int check (int);
            int mair ()
       d but n;
        prints (" Enter a no ");
       Scart (" 1.d", & n);
      printle (" returned no is 1.d", check(n));
          return 0;
       int check ( int m)
         st (m 1,2 ==0)
          return 1;
          return 0;
```

```
@ write a function to print first N
   natural no. (TSRN)
      # i clude (sidio. h)
        void print ( int );
         int main ()
      of int m;
    prott("Enter the n value");
    scarf ("1.d", Fa);
       print (n);
      return 0;
   void print ( int n)
     fol(i=1; i <= m; i++)
       printt (" /d", i))
```

write a program to prot first N odd natural no. (TSRN). It in clude as tdis. 4 void odd (int m); int main () f ent n; privite (" guter the " value"); Scar (" /d", 9n); odd(n); return 0; void rold (vit n) ful(i=1; i <=n; i+=2) printl (" 1.d", i);

```
O write a function to colculate the
   factorial of a number. (TSRS)
     IT include 25+dio.4>
        ent put (int m);
        int main ()
    of int ";
     prints (" Enter " value");
    Scarf (" y.d", 9n);
    privtt ("factoriel is I'd", fact (n));
       return 0;
   uit fact ( vit m);
     int as 1
     por (i=1; i<=n; i++)
       \alpha = \alpha * i;
      return a;
```

. De write a function to Calculate the no of combination one can make brown isers and a selected at a time. (TSRS) # include as tolio. h> sol" int fact (ws) ent comb (int, int) ent main() of inta, s; printle (" Enter a and & value"); Scart ("1.d 1.d", Fa, FB); print(" combination is 1.d", comb(a, 1)); return 0; int fact (int m) ent k=1 for (i=1;iZ=m; i++) f= (*i) return 6;

```
vit comb (int n, int R)
    d= (fact(n))/(fact(m-1) * fact(1));
     return d;
3 white a function to the weether a
  gite no. of arrangement over can
  make from niten and e elected at a
     time. (TSRS)
    # villade cs+dis. 43
       ent fort ( tit);
         int per ( int , int );
         int main ()
      d int a, b;
   privite ("Enter a and p values");
  Scart ("1.d 1.d", 4a, 4B);
  privite (" Ni. of arrangement is " f.d", per (a, &));
        returno;
```

```
ent fact ( int m)
  } int +211;
   for (i=1; ic=m; i++)
      f= t * i';
    return t;
 int per ( int m, int x)
     int di
    d= fort(m) / fort(m2);
     return d;
3 write a function to check whether a given
  no. Contains a given digit or nut.
       It ichele est div. 13
          eit check (it);
          vit main ()
      out n; ints;
     prints (" Enter a value");
     SCAM (" .f.d", &n);
```

1 S= Check (n); of (s = = 1) printt (" digit bound"); printt (" doesn't contain digit"); return 0;

```
int check ( int a)
fut m, b, c;
 privtl(" Enter the digit");
 Scary ("-1.d", FC);
  m= a;
   while ( m! = 0)
  $ = m 1.10;
     ù (b==c)
     prest;
n= n/10;
    st ( 8 = = c)
    return 1;
    return 0;
```

(1) write a function to print all prime foctors of a given no. for anauple, it the number is 36 then result should be 2,2,3,3, (TSRN) It in clude cs +dio. 4> void prime (int m); int main () printl (" Enter the n value"); Scarf ("1.d", 7m); prine (m); return 0;

```
void prine ( int m)
S par (i=2; m!=1; i++)
 ∫ while (n'1.1==0)
   \gamma = M 
     printt ("1.d", i);
    3
```