Assignment — 10 —

①
```c
#include <stdio.h>
#include <conio.h>
float area (float p);
int main()
{
    float r;
    printf("enter the radius");
    scanf("%d", &r);
    printf("area = %f", area(r));
    return 0;
}
float area (float p)
{
    float a;
    a = 3.14 * p * p;
    return(a);
}
```

②
```c
#include <stdio.h>
#include <conio.h>
int simpleinterest (int m, int r, int t);
int main()
{
    int m, r, t;
    printf("enter the amount, rate and time");
```

```c
    scanf("%d %d %d", &m, &r, &t);
    printf("S.I. = %d", simple interest(m, r, s));
    return 0;
}
int simpleinterest (int m, int r, int s)
{
    int s;
    s = m*r*s / 100 ;
    return(s);
}



(3) #include <stdio.h>
    #include <conio.h>
    int cheak (int p);
    int main()
    {
        int n;
        printf("Enter a number");
        scanf("%d", &n);
        printf("%d", cheak(n));
        return 0;
    }
    int cheak (int p)
    {
        if(P%2==0)
```

```c
            return 1;
    else
            return 0;
}


④ # include <stdio.h>
  # include <conio.h>
  void print(int n);
  int main()
  {
        int m;
        scanf("%d", &m);
        printf("Enter a number");
        scanf("%d", &m);
        printf(m);
        return 0;
  }

  void print(int n)
  {
        for(int i=1; i<=n; i++)
              printf("%d", i);

  }


⑤ # include<stdio.h>
  # include <conio.h>
  void odd (int p);
  int main()
  {
        int n;
```

```c
    printf("enter a number");
    scanf("%d", &n);
    odd(n);
    return 0;
}
void odd(int p)
{
    int i;
    for(i=1; i<=n; i++)
        if(i%2!=0)
            printf("%d\n", i);
}
```

(6)

```c
#include<stdio.h>
#include<conio.h>
int fact(int x);
int main()
{
    int n;
    printf("enter a number");
    scanf("%d", &n);
    printf("factorial = %d", fact(n));
    return 0;
}
```

```c
int fact (int x)
{
    int i, m=1;
    for (i=1; i<=n; i++)
        m*= i;
    return m;
}
```

(7)
```c
#include<stdio.h>
#include <conio.h>
int combin (int n, int r);
int fact (int P);

int main ()
{
    int n, r;
    printf ("enter n item and selected time r");
    scanf ("%d%d", &n, &r);

    printf ("%d", combin (n, r);
    return 0;
}

int combin (int n, int r)
{
    int m;
    m = fact (n) / (fact (r) * fact (n-r));
    return m;
}
```

));

```c
int fact (int p)
{
    int temp=1;
    for (int i=1; i<=p; i++)
        temp = temp * i;
    return temp;
}
```

Q)
```c
# include <stdio.h>
# include <conio.h>
int arrang (int x, int y);
int fact (int m);
int main ()
{
    int n, r
    printf ("enter n item and selected r times");
    scanf ("%d %d", &n, &r);
    printf ("number of arr = %d", arrang (n,r));
    return 0;
}
int arrang (int x, int y)
{
    int a;
    a = fact (x) / fact (x-y);
    return a;
}
int fact (int m)
{   int temp=1;
```

```
for(int i=1; i<=m; i++)
{
    temp = temp * i;
    return temp;
}
```

```c
(9) #include <stdio.h>
    #include <conio.h>
    int main()
    {
      int cheak(int n, int p)

      int main()
      {
        int n, p;
        printf("enter a digit");
        scanf("%d", &n);
        printf("enter a number");
        scanf("%d", &p);
        printf("%d", cheak(n,p));
        return 0;
      }
      int cheak(int n, int p)
      {
        int rem
        while(n>0)
        {
          rem = n%10
          if(rem == p)
              return 1,
          else
              return 0;
          n /= 10;
        }
      }
```

(10)
```c
# include < stdio.h>
# include < conio.h>
void prime fact (int P);
int main ( )
{
        int n;
        printf ("enter a number");
        scanf ("%d", &h);
        primefact (n);
        return 0;
}

void primefact (int p)
{
        int i, j
        for(j=2; j<=p; j++)
        {  for (i=2; i<j; i++)
           {  if (j%i ==0)
                     break;
           }
           if (j == i)
                if (n%i ==0)
                {
                        printf ("%d \n", i);
                        n/=i;
                        j=1
                        i=2
                }
        }
}
```