Assignment -2

* principal of programming language *

Ans-1- Pseudo code for prime Numbers

- Pseudo code:-
  - Input N and M
  - While N is Smaller than M
  - Initialize 1 to 1000.
  - While I is Smaller than N.
    - If M is divisible by N.
      - Skip loop
    - INCREMENT I
    - If N is equal to I.
      - Print N
  - Increment N.

- Source code:-

```c
#include <stdio.h>
int main{
    for (int i=1; i <= 1000; i++){
        if (prime(i)){
            printf("Prime Number");
        }
        else {
            printf("Non-prime Number");
        }
    }
    return 0;
}
```

```c
int prime (int n){
    for (int j=1; j<=n; j++){
        if (n%j == 0){
            count ++;
        }
    }



    if (count == 2){
        return 1;
    }
    else {
        return 0;
    }


}
```

Ans-2.

```c
# include <stdio.h>

    int incr(int count)
    {
        count++;
        return count;
    }


    int main ()
    {
        char ans;
        printf ("Hello! Are u new to Upes press
                Y for Yes and   N for No:");
        scanf ("%d", &ans);
```

```c
int count = 0;
int ans2 = 0;
if (ans == 'y'){
    do{
        printf("Hello! Are u new to UPES
                    press 1 for Yes 0 for No:")
        Scanf ("%d", &ans2)
        int result = result + incr(count);
        if (ans2 == 0){
            printf("The total No. of new
                        visitor today is:%d", result,

        }
    }
    while (ans2 == 1);

    else if (ans == 'N'){
        printf("The total No. of new visitor today
                    is : %d", result);
    }
    else{
        printf("");
    }
    return 0;

}
```

Ans-3-

```c
#include <stdio.h>
int integer (int n){

        if (n==0)
                return 0;
        else
                return (n%2 + 10 * integer (n/2))
    }


Void main ()
    {
        int n;
        printf("Enter a integer number :\n");
        Scanf("%d", &no);
        printf("Integer (%d) = Binary (%d)\n"
                n, integer (n));

    }
```

// Procedure for Converting decimal to Binary.

Step1: Start

Step2: Input an Decimal Number

Step3: Read the Decimal Number and Make an
        Integer Number function. then call it.

Step4: IS n equal to 0
                Return 0 value

        Not
                Then return   n%2 + 10 * (n/2)

Step5: print the Output Binary Number.

Step 6: Stop.

Ans-4.

```c
# include <stdio.h>

int main()
{      int a[100] = {1,2,3 ..... 100}
       for (int i=0; i<100; i*2){
             printf(" The Number with posibion
                    a[%d]:%d", i, a[i]});
       }

       return 0;

}
```

Ans.5.

```c
// Palindrome   or   Not //

# include <stdio.h>
int main()
{
       int n;
       printf(" Enter the Number:");
       scanf("%d", &n);

       int org = n;
       int count = 0;
       while (n>0){
             int last digit = n%10;
             count = Count * 10 + last digit;
             n/ = 10;
       }
```

```c
if (count == org) {
    printf(" Palindrome Number:");
}
else {
    printf(" Non-Palindrome  Number");
}

return 0;
}
```