ASSIGNMENT-1

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1ST SEMESTER
CSE (AI/ML)



Model Institute of Engineering & Technology (Autonomous)

(Permanently Affiliated to the University of Jammu, Accredited by NAAC with "A" Grade)

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1. Write a C program to print all three-digit Adam numbers.

#include <stdio.h>
#include <math.h>

int square(int n);
int squareroot(int n);

```
int reverse(int n);
void main()
  int p,l,k,m;
  for(int i = 100; i < =999; i++)
    p = square(i);
    m = reverse(p);
    l = squareroot(m);
    k = reverse(l);
    if(i==k)
    printf("%d", i);
    else
    continue;
  }
int square(int n)
  int x;
  x = n*n;
  return x;
int squareroot(int n)
  int x;
  x = (int)sqrt(n);
  return x;
int reverse(int n)
  int rem=0,ans=0;
  while(n){
  rem = n\%10;
  ans = ans*10 + rem;
  n/=10;
  }
  return ans;
                                  TERMINAL
 PS C:\Users\hp\Desktop\satyendra sharma C programming> gcc .\pto.c
 PS C:\Users\hp\Desktop\satyendra sharma C programming> .\a.exe
 101 102 103 111 112 113 121 122 201 202 211 212 221 301 311
 PS C:\Users\hp\Desktop\satyendra sharma C programming>
                                          Page 2
```

2. <u>The following letters of the English alphabet are vowels: a, e, i, o, and u.</u> You are given a string named str of length n. Find and print the most frequent vowel in str.

```
#include <stdio.h>
#include <string.h>
void main()
  int n,ca=0,ce=0,ci=0,co=0,cu=0;
  printf("Enter the length of string :- ");
  scanf("%d", &n);
  char str[n];
  printf("\nEnter the string :- ");
  gets(str);
  gets(str);
  for(int i = 0; i < n; i++)
    if(str[i] == 'a')
    ca++;
    else if(str[i] == 'e')
    ce++;
    else if(str[i] == 'i')
    ci++;
    else if(str[i] == 'o')
    co++;
    else if(str[i] == 'u')
    cu++;
  }
  if(ca>ce&&ca>ci&&ca>co&&ca>cu)
  printf("A");
  else if(ce>ci && ce>co && ce>cu)
  printf("E");
  else if(ci>co&&ci>cu)
  printf("I");
  else if(co>cu)
  printf("O");
  else
  printf("U");
                         OUTPUT
                                  TERMINAL
 PS C:\Users\hp\Desktop\satyendra sharma C programming> gcc .\pto.c
 PS C:\Users\hp\Desktop\satyendra sharma C programming> .\a.exe
 Enter the length of string :- 3
 Enter the string :- 5
PS C:\Users\hp\Desktop\satyendra sharma C programming>
```