

#### 4. Automorphic number .

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

```
int main()
```

```
{
    int a, sq, temp, last, count = 0;
```

```
    printf("Enter the number:\n");
```

```
    scanf("%d", &a);
```

```
    sq = a * a;
```

```
    temp = a;
```

```
    while (temp > 0)
```

```
{
```

```
        temp = temp / 10;
```

```
        count++;
```

```
}
```

```
    float d;
```

```
    d = pow(10, count);
```

```
    last = sq % d;
```

```
    if (last == a)
```

```
{
    printf("it is a automorphic number");
```

```
}
else
```

```
{
    printf("not automorphic number");
```

```
}
```

```
    return 0;
```

```
}
```

33/100

10/10

6.  
#include <stdio.h>  
int main ()

{  
int a, i;  
for (i=1; i>=0; i++)

2/15

{  
printf("Enter the number:");  
scanf("%d", &a);  
a = \*;  
}  
return 0;

}  
#include <stdio.h>  
#include <math.h>  
int main()

{  
int a, sq/r, v, temp;  
printf("Enter the number:");  
scanf("%d", &a);  
sq/r = a \* a;  
printf("\n square of the given number: %d", sq/r);  
temp = a;

while (temp > 0)  
{  
temp = temp/10;  
count ++;

5/15

}  
float d;  
d = pow(10, count);

v = sq/r % d;  
sq/r = sq/r / 10;

sum = v + sq/r;  
printf("\n sum of digit of square number: %d + %d = %d",  
sq/r, v, sum);

5776

```

if (sum == a)
{ printf("correct number");
}
else
{ printf("Incorrect number");
}
return 0;
}

```

a. Vowel or Consonant ;

```
#include <stdio.h>
```

```
int main();
```

```

{
    char a; vowels;
    printf("Enter an alphabet:");
    scanf("%s", &a);
    switch (vowels)

```

8/10

```

{
    case('a'):
        printf("a is a vowel");
        break;

```

```

    case('e'):
        printf("e is a vowel");
        break;

```

```

    case('i'):
        printf("i is a vowel");
        break;

```

```

    case('o'):
        printf("o is a vowel");
        break;

```

```

    case('u'):
        printf("u is a vowel");
        break;


```

```

    default:
        printf("%d is a consonant", a);
        break;
}

```

$$a \% i \neq 0$$

3. #include <stdio.h> 

int main();

{

int a, d;

printf("Enter a number:");

scanf("%d", &a);

→  $d = a \% a$ ;

for(i=1; i>0; i++)

{

if (d==0 &&  $a \neq i$ )

{ printf("%d is a prime number", a);

}

else

{

printf("%d is not a prime number", a);

}

}

return 0;

}

2/20

1. a) Output :

False 5/5

b) default 0/5

7.

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int a
```

```
    printf("Enter a number : \n"); // 2
```

```
    scanf("%d", &a);
```

```
    for (i = 0; i <= 0; i++)
```

```
    {
```

```
        printf((" %d", i) (" %d\n", i));
```

```
    }
```

1/20