STUDENT ID :

1. Write down the output of the following C Programs –

(A)
```c
int main()
{
        float x = 5.0/3;
        int y = 5.0/3;
        printf("%.2f\n",x);
        printf("%d\n",y);
        return 0;
}
```

```
1.67
1
```

(B)
```c
int main()
{
  int k;
  for(;;)
  {
     printf("TESTING\n");
  }
  return 0;
}
```

Testing
Testing
Testing
Testing
Testing

(infinity)

(C)
```c
# include <stdio.h>
int main()
{
  int i = 0;
  for (i=0; i<20; i++)
  {
    switch(i)
    {
      case 0:
       i += 5;
      case 1:
       i += 2;
      case 5:
       i += 5;
      default:
       i += 4;
       break;
    }
    printf("%d ", i);
  }
  return 0;
}
```

16 20

(D)
```c
#include <stdio.h>
int main()
{
  int i;
  for (i = 1; i != 10; i += 2)
  {
    printf(" Hello Every One \n");
  }
  return 0;
}
```

Hello Every One
Hello Every One
Hello Every One
(Infinity)

(E)
```c
#include<stdio.h>
int main()
{
    int a = 5;
    switch(a)
    {
    default:
       a = 4;
    case 6:
       a--;
    case 5:
       a = a+1;
    case 1:
       a = a-1;
    }
    printf("%d \n", a);
    return 0;
}
```

2. Is there any difference between **i++** and **++i** ? Explain with examples.
3. Write a C program to check whether a number is even or odd using switch case.