Polymorphism is used in following programme.

Output

@ @ @ @
9 18 27

04. No, it will not run without any error
∴ function defination is not given for
one of the prototypes declared in class Test.
Moreover, no value is returned in main();
Correct programme:-

```
# include <iostream.h>
Class Test
{
public:
  void f(int n, double m);
  void f(int n, int m);
};

void test :: f (int n, double m) {
Cout << "Addition of int and double value resulted in :"
    << (double)(n+m) << endl;
}

void test :: f(int n, int m)
{ Cout << " Addition of two int values resulted in : "
    << n+m << endl;
}

int main()
{ Test t1;
```

```
        cout << "\nVolume = " << v;
        break;
case 3: cout << " Enter length, breadth & height
                of cuboid ";
        cin >> l >> b >> h;
        v = volume (l, b, h);
        cout << "\n volume = " << v;
        break
default: cout << " Wrong input :)"
}
cout << " Do you wish to continue (Y/N) ";
cin >> ch;
}
while ( ch == 'Y' || ch == 'y');

float volume (float s)
{
return ( s * s * s);
}
float volume (float r, float h)
{
return ( 3.14 * r * r * h);
}
float volume (float l, float b, float h);
{
return ( l * b * h);
}
}
```

03 P.T.O.

5/4/15

CH-3

Function Overloading

Q1.
```
void max(int);
void max(int, int);
void max( int a[]);
```

Q2.
```
#include <iostream.h>
float volume(float);
float volume(float, float);
float volume(float, float, float);

void main()
{
float v, s, r, h, l, b, choice;
char ch;
do {
cout << " 1. cube \n 2: cylinder \n 3. cuboid";
cout << " \n Enter your choice";
cin >> choice;
switch (choice)
{
case 1: cout << "\nEnter side of cube";
        cin >> s;
        v=volume(s);
        cout << "\nVolume : " << v;
        break;
case 2: cout << "\n Enter radius & height of cylinder";
        cin >> r >> h;
        v= volume (r, h);
```