**HAM JING YI A19EC0048**

**1)**

a) True

b) True

c) True

d) True

e) False (string university= “UTM”)

**2)**

**a)** string vehicle;

**b)**string student2= “vehicle”;

 string student1(student2);

**c)** string city(“Pasir Gudang”);

**d)**string fullname= “vehicle”;

 string firstname=fullname.substr(0,5);

**3)**



**6)**

a) WIRA

Assign s1 to s3.

**b)** SONA

Assign s2 to s3 begin from position 3 of s2 and takes only 4 characters.

**c)** WIRA

Append s1 to s4.

**d)** SON

append number of character from s2 starting at position 3 and takes only 3 characters.

**7)**

**a) swap**

**//a : swap the contents of s with s1**.

#include<iostream>

#include<string>

using namespace std;

int main()

{

 string s="John";

 string s1="JING YI";

 s1.swap(s);

 cout<<s<<" "<<s1<<endl;

 return 0;

}

**b)copy**

 **//b : copy the character array (“JohnLilyJames”) to s1, beginning at position 4, for 8 characters.**

#include<iostream>

#include<string>

#include<algorithm>

using namespace std;

int main()

{

 string s="JohnLilyJames";

 char s1[13];

 s.copy(s1,4,8);

 cout<<s1;

 return 0;

}

**c)empty**

 **//c : returns true if the s1 is empty**

#include<iostream>

#include<string>

using namespace std;

int main()

{

 string s=" John";

 cout<<s.empty()<<endl;

 string s1;

 cout<<s1.empty();

 return 0;

}

**d)** **find**

 **//d: Return the first position at or beyond position 0 where ‘A’ is found in the string s2.**

#include<iostream>

#include<string>

using namespace std;

int main()

{

 string s2="zAnafg ";

 cout<<s2.find('A',0)<<endl;

 return 0;

}

**e)insert**

 **//e: Inserts a copy of s into s1, beginning at position 4.**

#include<iostream>

#include<string>

using namespace std;

int main()

{

 string s="Uni ";

 string s1("UTM Johor");

 s1.insert(4,s);

 cout<<s1<<endl;

 return 0;

}

**f) substr**

**//f: Return a copy of a substring of s1 to s. The substring is a 7 characters long and begins at the position 0 of the s1.**

#include<iostream>

#include<string>

using namespace std;

int main()

{

 string s;

 string s1="HAM JING YI";

 s=s1.substr(0,7);

 cout<<s;

 return 0;

}